NAVAIR

NAVY TRAINING SYSTEM PLAN

FOR THE

NATIONAL AIRSPACE SYSTEM

MODERNIZATION PROGRAM

N78-NTSP-A-50-0011A/D

MARCH 2004

NATIONAL AIRSPACE SYSTEM MODERNIZATION PROGRAM

EXECUTIVE SUMMARY

The National Airspace System Modernization Program (NAS Mod) provides for a massive upgrade of the current analog Air Traffic Control (ATC) system with digital technology. This upgrade enables the Department of Defense to keep pace with changing Federal Aviation Administration (FAA) guidelines and standards for terminal radar approach controls. Navy acquisition of NAS Mod will be through an Air Force led, joint effort. NAS Mod is replacing the current AN/GPN-27 Airport Surveillance Radar and AN/UPX-27 Interrogator with the AN/GPN-30 Digital Airport Surveillance Radar (DASR). Additionally, the current Automation Systems (AN/TPX-42 and AN/UYX-1) are being replaced with the AN/FSQ-204 Standard Terminal Automation Replacement System (STARS); and the current information displays are being replaced with the AN/FYC-22 Visual Information Display System (VIDS). STARS and DASR entered the Production and Deployment Phase of the Defense Acquisition System in August 2001. VIDS is an Abbreviated Acquisition Program, which is not required to conform to the Defense Acquisition System standards; however, the VIDS can be considered to be in the Production and Deployment Phase.

The NAS Mod components are of Non-Developmental design consisting of modified Commercial Off-The-Shelf equipment provided by Raytheon Corporation. The Space and Naval Warfare Systems Center, Charleston, South Carolina, is the Navy Integration Agent for NAS Mod and is responsible for installing and testing the NAS Mod components.

Navy Air Traffic Controller (AC) personnel with Navy Enlisted Classification (NEC) code 6901 (Air Traffic Controller), Marine Corps personnel with Military Occupational Specialty (MOS) 7257 (Air Traffic Controller), and civilian Air Traffic Controllers operate the NAS MOD equipment. The current course, *C-222-2022, Advanced Radar Air Traffic Control*, will be revised to include STARS and VIDS information. No increase in course length is required. The revised course will be Ready For Training in FY06.

Navy Electronics Technician (ET) personnel with NEC 1574, 1578, or 1580, Marine Corps personnel with MOS 5953, and civilian ATC Radar Technicians will maintain the NAS Mod equipment until a new DASR/STARS maintenance training pipeline, which will be phased-in over a five-year period, is Ready For Training (RFT) in October 2004. Navy ET personnel completing the new DASR/STARS maintenance track will be awarded NEC 1517. The three existing maintenance tracks that award NECs 1574, 1578, and 1580 will be phased-out on a parallel schedule. Marine Corps ATC Radar Technicians will attend the new DASR/STARS courses; however, they will retain MOS 5953.

No increases to existing Navy or Marine Corps manpower will be required to operate or maintain NAS Mod components.

NATIONAL AIRSPACE SYSTEM MODERNIZATION PROGRAM

TABLE OF CONTENTS

NATIONAL AIRSPACE SYSTEM MODERNIZATION PROGRAM

LIST OF ACRONYMS

AC	Air Traffic Controller
ACDU	Active Duty
AFB	Air Force Base
AFLCS	Airfield Lighting Control System
AFOTEC	Air Force Operational and Test Evaluation Center
AOB	Average Onboard
APMTS	Assistant Program Manager, Training Systems
ARATC	Advanced Radar Air Traffic Control
ARTCC	Air Route Traffic Control Center
ASOS	Automated Surface Observing System
ASR	Airport Surveillance Radar
ASTERIX	All-purpose Structured Eurocontrol Radar Information Exchange
ATC	Air Traffic Control
ATIR	Annual Training Input Requirement
ATIS	Automatic Terminal Information Service
CAI	Computer-Aided Instruction
CBT	Computer-Based Training
CFY	Current Fiscal Year
CIN	Course Identification Number
CMM	Course Model Manager
CNATT	Chief of Naval Air Technical Training
CNO	Chief of Naval Operations
COMLANTFLT	Commander, Atlantic Fleet
COMPACFLT	Commander, Pacific Fleet
COMS	Contractor Operation and Maintenance of Simulators
COTS	Commercial Off-The-Shelf
CRT	Cathode Ray Tube
CTO	Control Tower Operator
DA	Developing Agency
DAAS	DoD Advanced Automated System
DAIR	Direct Altitude and Identity Readout
DASI	Digital Altimeter Setting Indicator
DASR	Digital Airport Surveillance Radar
DoD	Department of Defense
DP	Display Processor
ES	Emergency Service
ESL	Emergency Service Level

NATIONAL AIRSPACE SYSTEM MODERNIZATION PROGRAM

LIST OF ACRONYMS

ESOH	Environmental, Safety, and Occupational Health
ET	Electronics Technician
ETMS	Enhanced Traffic Management System
FAA	Federal Aviation Administration
FS	Full Service
FSL	Full Service Level
FY	Fiscal Year
GB DAT	Gigabit Digital Audio Tape
GB DLT	Gigabit Digital Linear Tape
GFE	Government Furnished Equipment
GPETE	General Purpose Electronic Test Equipment
GPW	General Purpose Workstation
HPRR	Human Performance Requirements Review
HSI	Human Systems Integration
ICW	Interactive Courseware
IOC	Initial Operating Capability
JPO	Joint Program Office
LAN	Local Area Network
LRU	Line Replaceable Unit
MACS	Marine Air Control Squadron
MCAF	Marine Corps Air Facility
MCAS	Marine Corps Air Station
MCCDC	Marine Corps Combat Development Command
MCW	Monitor and Control Workstation
MIDDS	Meteorology and Oceanography Integrated Data Display System
MOS	Military Occupational Specialty
MRC	Maintenance Requirements Card
MSD	Material Support Date
NA	Not Applicable
NALF	Naval Auxiliary Landing Field
NAS	Naval Air Station
NAS Mod	National Airspace System Modernization Program

NATIONAL AIRSPACE SYSTEM MODERNIZATION PROGRAM

LIST OF ACRONYMS

NATTC	Naval Air Technical Training Center
NAVAIR	Naval Air Systems Command
NAVPERSCOM	Naval Personnel Command
NDI	Non-Developmental Item
NEC	Navy Enlisted Classification
NETC	Naval Education and Training Command
NOLF	Naval Outlying Field
NTSP	Navy Training System Plan
OID	Operator Interface Device
OJT	On-the-Job Training
OPNAV	Office of the Chief of Naval Operations
OPO	OPNAV Principal Official
ORD	Operational Requirements Document
OT&E	Operational Test and Evaluation
PA	Practical Application
PDA	Program Developing Agent
PESHE	Programmatic Environmental, Safety, and Occupational Health Evaluation
PFY	Prior Fiscal Year
PJT	Practical Job Training
PMA	Program Manager, Air
RATCF	Radar Air Traffic Control Facility
RDP	Radar Data Processor
RFT	Ready For Training
SELRES	Selected Reserves
SMCR	Selective Marine Corps Reserve
SPAWARSYSCEN	Space and Naval Warfare Systems Center
SPETE	Special Purpose Electronic Test Equipment
SPTE	Special Test Equipment
SRU	Shop Replaceable Unit
SSS	Site Support Server
ST	Special Tool
STARS	Standard Terminal Automation Replacement System
TAR	Training and Administration of Reserves
TATCF	Transportable Air Traffic Control Facility

NATIONAL AIRSPACE SYSTEM MODERNIZATION PROGRAM

LIST OF ACRONYMS

TCG	Time Code Generator
TCW	Terminal Controller Workstation
TD	Training Device
TDW	Tower Display Workstation
TECR	Training Equipment Change Request
TFS	Total Force Structure
TOTS	Tower Operator Training System
TTE	Technical Training Equipment
UIC	Unit Identification Code
VIDS	Visual Information Display System
WSDI	Wind Speed and Direction Indicator

NATIONAL AIRSPACE SYSTEM MODERNIZATION PROGRAM

PREFACE

This Draft Navy Training System Plan (NTSP) for the National Airspace System Modernization Program (NAS Mod) has been prepared to update the Approved NAS Mod NTSP, A-50-0011/A, dated August 2001, in accordance with guidelines set forth in the Navy Training Requirements Documentation Manual, Office of the Chief of Naval Operations (OPNAV) Publication P-751-1-9-97. Changes addressed in this iteration include:

- Incorporation of program changes that have occurred since the last NTSP was published
- Incorporation of updated delivery schedule
- Incorporation of updated manpower requirements
- Incorporation of latest Human Systems Integration (HSI) information
- Points of contact information in Part VII have been updated

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. Nomenclature-Title-Acronym. National Airspace System Modernization Program (NAS Mod)

2. Program Elements

Digital Airport Surveillance Radar (DASR)..... 35114F
Standard Terminal Automation Replacement System (STARS)..... 35137F
Visual Information Display System (VIDS)..... 0204696N

B. SECURITY CLASSIFICATION

1. System Characteristics ..... Unclassified
2. Capabilities ..... Unclassified
3. Functions..... Unclassified

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor ..... CNO (N785)

OPO Resource Sponsor..... CNO (N785)

Developing Agency ..... NAVAIR (PMA213)

Training Agency ..... COMLANTFLT
COMPACFLT
CNATT (FIDN5)

Training Support Agency..... NAVAIR (PMA205)

Manpower and Personnel Mission Sponsor..... CNO (N12)
NAVPERSCOM (PERS-4, PERS-404)

Director of Naval Education and Training ..... CNO (N00T)

Marine Corps Force Structure..... MCCDC (C53)

D. SYSTEM DESCRIPTION

1. Operational Uses. The DASR, STARS, and VIDS will be incorporated into the Navy's National Airspace System facilities as part of the NAS Mod. Facilities identified to receive the NAS Mod components include:

- All shore-based Navy and Marine Corps Air Traffic Control (ATC) Facilities
- Air Traffic Control School, Naval Air Technical Training Center (NATTC) Pensacola, Florida
- Space and Naval Warfare Systems Center (SPAWARSYSCEN) Charleston, South Carolina

This modernization is based on the Department of Defense (DoD) commitment to keep pace with the Federal Aviation Administration (FAA) in the National Airspace System Modernization process. Use of the NAS Mod components will allow DoD facilities to provide services comparable to those provided by the FAA to civil aircraft in the airspace delegated to the DoD. This includes providing the following flight services to air bases and airports within the DoD jurisdiction:

- Flight following
- Separation
- Expeditious handling
- Radar approach control and landing

Coordination of the NAS Mod for FAA and DoD facilities is accomplished through the Joint Program Office (JPO), Electronic Systems Center, Air Force Material Command, Hanscom Air Force Base, Massachusetts.

2. Foreign Military Sales. For information concerning the NAS Mod Air Force, Army, or FAA, contact the Developing Agency (DA), Naval Air Systems Command (NAVAIR) Program Manager, Air (PMA) 213.

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST.

Developmental and operational testing for DASR, STARS, and VIDS has been completed.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED.

NAS Mod will replace the current AN/GPN-27 Airport Surveillance Radar (ASR) and AN/UPX-27 Interrogator with the AN/GPN-30 DASR, the current Automation Systems (AN/TPX-42A(V)5 and AN/TPX-42A(V)10) with the AN/FSQ-204 Standard Terminal Automation Replacement System (STARS), and the current information displays with the AN/FYC-22 VIDS.

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. NAS Mod consists of three primary components: the AN/GPN-30 DASR, the AN/FSQ-204 STARS, and the AN/FYC-22 VIDS.

a. Digital Airport Surveillance Radar. DASR consists of an Antenna Pedestal Group, a Primary System Radar Group, and a System Control and Monitoring/Radar Data Processor.

(1) Antenna Pedestal Group

(a) Primary Antenna. The primary antenna is a doubly curved reflector with two-beam feed and modified cosecant squared vertical pattern.

(b) Secondary Antenna. The secondary antenna is a high gain planar array, monopulse Large Vertical Aperture (LVA) antenna which meets FAA vertical coverage requirements, sharp cutoff below beam peak, and Mode-S compatible standards.

(c) Pedestal. The pedestal has dual drive motors, making it possible to service the alternate motor in the event of failure and still maintain operational radar. The pedestal also features dual 14-bit optical encoders with individual power supplies.

(2) Primary System Radar Group

(a) Primary System Radar Transmitter. The eight transmitter module, all solid-state, coherent transmitter with fault tolerant fail-soft architecture features air cooled, hazard-free, low voltage operation, dedicated power supplies for each module, and built-in fault isolation down to a single Line Replaceable Unit (LRU).

(b) Primary System Radar Receiver. The redundant target and weather receivers use identical radio frequency wide-band receivers and converters operating in the 2700 to 2900 megahertz range with sensitivity time controls programmable from 0 to 72 decibels in six decibel steps.

(c) Signal Data Processor. Dual redundant processors perform identical tasks synchronously, so that should a processor fail, the failure is transparent to the system. The signal data processor features programmable digital pulse compression with range sidelobes below 50 decibels and preprogrammed and adaptive threshold clutter and beam maps.

(3) System Control and Monitoring/Radar Data Processor. These two functions co-exist on dual redundant workstations.

(a) System Control and Monitoring. Graphic windows of system configuration, system controls, and LRU status are displayed on the workstation color display. Operational controls are accessed via buttons on the various control screens; reconfiguration of the system is available at a single control point accessible to the logged-on maintenance operator with control enabled. All four workstations (two at the radar site and two

remote) display the current system status, and all menus apart from adaptation data can be viewed on any of the workstations.

(b) Radar Data Processor. The Radar Data Processor receives track data from the primary surveillance radar and plot data from the secondary surveillance radar. Merging of primary surveillance radar and monopulse secondary surveillance radar tracks takes place if tracks from the two sensors fall within set limits. The on-line radar data processor provides redundant outputs to the radar data remoting equipment in All-purpose Structured Eurocontrol Radar Information Exchange (ASTERIX) format.

b. Standard Terminal Automation Replacement System. In the FAA community, the DoD Advanced Automated System (DAAS) is known as STARS, and for this document it is referred to as STARS. STARS will provide a system that maximizes the use of Commercial Off-The-Shelf (COTS) items and Non-Developmental Items (NDI). STARS will provide a fully digital, fault tolerant, high availability system to support essential FAA and DoD ATC services. STARS is equipped with a single scaleable hardware and software system for all terminal facilities, plus an expandable and extensible platform to support future workloads. User benefit programs are also provided.

(1) Radar Data Processor. The Radar Data Processor (RDP) has two redundant processors (one on-line and one hot standby) mounted in the equipment room rack and interfaced to Full Service Level (FSL) Local Area Networks (LAN). The processor size depends on the number of radar systems: Sun Ultra 1 Model 170 for 1-3 radar systems (small), Sun Ultra 1 Model 200E for 4-13 radar systems (medium), and Sun Ultra 2 Model 1300 for 14-16 radar systems (large). System software handles radar data inputs, processes flight data, and maintains and monitors system tracks.

(2) Terminal Controller Workstation. The Terminal Controller Workstation (TCW) consists of one Full Service (FS) Display Processor, one Emergency Service (ES) Display Processor, and one Display Controller-Server mounted in the TCW Console. The ES Display Processor and Controller-Server is the Sun Ultra 1 Model 170. The FS Display Processor depends on the number of radar systems: Sun Ultra 1 Model 170 for 1-3 radar systems (small), Sun Ultra 1 Model 200 for 4-8 radar systems (medium), and Sun Ultra 2 Model 1300 for 9-16 radar systems (large).

(3) Tower Display Workstation. The Tower Display Workstation (TDW) consists of one FS Display Processor, one ES Display Processor, and one Display Controller-Server mounted in the tower equipment room rack. The ES Display and Controller-Server is the Sun Ultra 1 Model 170E. The FS Display Processor depends on the number of radar systems: Sun Ultra 1 Model 170 for 1-8 radar systems (small) and Sun Ultra 1 Model 200E for 9-16 radar systems (large). Interface to remote towers (greater than 5,000 feet from parent facility) is accomplished via two Government-Furnished Equipment (GFE) lines.

(4) Monitor and Control Workstation. The Monitor and Control Workstation (MCW) consists of one FS Processor, one ES Processor, and one Display Processor (DP) mounted in the MCW computer table in the equipment room. All FS and ES processors are

Sun Ultra 5; all DP processors are Sun Ultra 10. The MCW has one standard 24-inch 1280 x 1024 Cathode Ray Tube (CRT) display. The MCW provides control and monitoring display for control system operation, system status display and/or update, system message display, and control playback of recorded system data.

(5) General Purpose Workstation. The General Purpose Workstation (GPW) consists of one Sun Ultra 5 display with integrated graphics controller, one standard 21-inch 1024 x 1280 CRT display, and a Pseudo-pilot GPW for Pseudo-pilot position assigned training scenario flights to control in response to trainee position controller directions. Contract quantities provide for one Pseudo-pilot for each TCW.

(6) Test and Training Simulator. The Test and Training Simulator consists of the Sun Ultra 5 display, and communicates with Pseudo-pilot GPWs via the supporting LAN. The Simulator creates simulated system inputs from scenario generation tools for use by FSL and Emergency Service Level (ESL) to aid in certification, testing, and training of controllers. The Simulator has optional voice recognition and synthesis capability.

(7) Site Support Server. The Site Support Server (SSS) consists of the Sun Ultra 5 with archival tape storage. Sites with less than three radar systems will have 12 Gigabit Digital Audio Tape (GB DAT), and sites with three or more radar systems will have 40 Gigabit Digital Linear Tape (GB DLT). SSS provides storage of Site Adaptation Data Files.

(8) Data Recording Equipment. The Data Recording Equipment has two redundant Sun Ultra 5 processors (one on-line and one hot standby), each with two tape drives. Each tape drive can record at least 24 hours of system data. Sites with less than three radar systems will have 12 GB DAT and sites with three or more radar systems will have 40 GB DLT.

(9) Communications Gateway Equipment. The Communications Gateway Equipment has dual redundant Sun Ultra 5 processors (two each for ESL and FSL). Modem Sharing Units split Air Route Traffic Control Center (ARTCC), Enhanced Traffic Management System (ETMS), and radar inputs for redundant ESL and FSL equipment (radar only for ESL). Processing includes Radar and ARTCC message validation and processing, radar data filtering, and multi-scan radar correlation.

(10) Network Equipment. Network equipment utilizes Ethernet LAN over twisted pair and/or fiber optics, plus a combination of switches, hubs, and routers. Units are stackable; the modular design allows for addition of components for specific site configurations. The units act as Server Network Management Protocol agents reporting to STARS monitor and control. Firewalls and routers provide network security.

c. Visual Information Display System. VIDS is a COTS network that integrates many small systems used in an ATC facility. VIDS is a client server-based system integrating multiple information systems into a Touch Entry display for each operating position in ATC facilities.

VIDS uses redundant file servers with hubs, workstations, video integration components, audio components, 100BaseT Ethernet, and fiber optics to interface and manage all the system data. The network operating system is Windows NT 4.0. The display software was developed to support the requirements of each system interfacing with VIDS to maximize the information available to the user.

VIDS will consolidate the processing, control, and display of information for the following systems:

- ID-2446/U Master Wind Speed and Direction Indicator (WSDI)
- ML-661/F Digital Altimeter Setting Indicator (DASI)
- AN/FSN-7 Airfield Lighting Control System (AFLCS)
- Automatic Terminal Information Service (ATIS)
- SG-1064 Facility Time Code Generator (TCG)
- Automated Surface Observing System (ASOS) Operator Interface Device (OID)
- AN/GMQ-27 Weather Vision and/or Meteorology and Oceanography Integrated Data Display System (MIDDS)
- FA-10095 FAA Flight Data Input/Output
- Remote Video Cameras

VIDS will replace the following system components in the control tower:

- ID-2447A/U Slave WSDIs
- ID-2423/F DASI Displays
- AN/FSN-7 AFLCS display, keyboard, trackball, and the Central Processor Unit (CPU)
- ATIS System
- ID-2384G and ID-2396 Clock Displays
- Weather Vision/MIDDS Display
- FA-10095-2 Printer
- FA-10095-3 Keyboard
- FA-10095-4 Display
- Remote Video Camera Displays and Controls

VIDS will automate the following control tower administrative functions using a centralized database:

- Daily Operations Log - FAA Form 7230-4
- Position Log - FAA Form 7230-10
- Air Traffic Activity Report

2. Physical Description

a. Digital Airport Surveillance Radar. The physical dimensions and weight of DASR components, with the exception of the Engine-Generator Set and the Pre-fabricated shelter, vary by site configuration.

COMPONENT	LENGTH (FEET)	WIDTH (FEET)	HEIGHT (FEET)	WEIGHT (POUNDS)
Engine-Generator Set	12	15	10	41,000
Pre-fabricated Shelter	30	12	10	82,000

b. Standard Terminal Automation Replacement System. All STARS equipment will fit within two different size equipment racks. The weight of each equipment rack will vary by site configuration.

COMPONENT	HEIGHT (INCHES)	WIDTH (INCHES)	DEPTH (INCHES)
Equipment Rack (6 foot)	73.62	22.56	31.56
Equipment Rack (3.5 foot)	43.87	22.56	31.56

c. Visual Information Display System. VIDS contains a Standard Information Window that provides basic safety of flight information to the controller. This information is provided by live sensor data from the incorporated air traffic control systems. The Standard Information Window is located at the top of the Air Traffic Controller's display, and can be sized using the "Size" button to suit the operator's preference. VIDS also displays a main menu bar that provides a central point for the user to perform commonly occurring operations. It consists of a series of buttons and is located near the bottom of the controller's display.

3. New Development Introduction. The NAS Mod components are NDI, consisting of modified COTS equipment.

4. Significant Interfaces. The DASR, STARS, and the VIDS will interface with each other.

5. New Features, Configurations, or Material. Not Applicable (NA)

H. CONCEPTS

1. Operational Concept. Operator duties for the NAS Mod components consist of energizing and de-energizing the components to be used. These actions will be performed by Navy and Marine Corps Air Traffic Controllers, and civilian DoD personnel assigned to the Air Operations Department. No dedicated operator is required.

2. Maintenance Concept. The NAS Mod components will be maintained using a two-level maintenance concept, organizational and depot.

a. Organizational. Navy personnel in the Electronics Technician (ET) rating with Navy Enlisted Classification (NEC) 1517, *DASR/STARS Maintenance Technician*, and Marine Corps personnel with military Occupational Specialty (MOS) 5953, *Air Traffic Control Radar Technician*, perform on-site organizational level maintenance.

(1) Preventive Maintenance. Preventive maintenance consists of periodic inspections and servicing per applicable Maintenance Requirements Cards (MRC). Most preventive maintenance is accomplished with the components in the operational state and without degrading system performance. Cleaning and lubrication of the rotary joint slip ring of the DASR requires that the system be shut down.

(2) Corrective Maintenance. Corrective maintenance includes on-equipment and off-equipment maintenance actions. On-equipment maintenance consists of fault isolation and removal and replacement of faulty LRU in an operational environment. Off-equipment maintenance includes limited repair of Shop Replaceable Units (SRU) when failures can be isolated using Built-In Test and limited support equipment and technical data.

b. Intermediate. NA

c. Depot. Depot maintenance consists of repairing failed LRUs and SRUs down to the piece part level. Depot maintenance may also include emergency maintenance, engineering support, and other logistics support not available at the organizational level. Initially, the contractor will provide all depot level maintenance functions. The FAA intends to establish an organic depot at the FAA Logistics Center in Oklahoma City, Oklahoma, for all DoD and FAA DASR systems by Fiscal Year (FY) 05. Organic depot support for STARS is planned in FY05. Depot maintenance for VIDS is currently under Business Case Analysis and will be addressed in future updates to this NTSP.

d. Interim Maintenance

1. Digital Airport Surveillance Radar. The contractor (Raytheon) provides Interim Contractor Support. Raytheon and/or SPAWARSYSCEN Charleston provides maintenance support required during initial installation of NAS Mod at each installation site. The DASR and STARS systems are under warranty for one year from the time of installation.

2. Standard Terminal Automation Replacement System. Interim maintenance support of STARS is provided by Raytheon via an FAA contract.

3. Visual Information Display System. SPAWARSYSCEN Charleston provides VIDS interim maintenance support as required.

e. Life Cycle Maintenance Plan. NA

3. Manning Concept. Introduction of the NAS Mod components has no impact on the current manning levels for operators or maintainers in the Navy and Marine Corps. The Navy has established a new NEC, ET 1517, *DASR/STARS Maintenance Technician*. ET personnel currently holding NEC 1574, 1578, or 1580 will initially fill these billets. Marine Corps personnel with MOS 5953, *Air Traffic Control Radar Technician*, maintain the NAS Mod equipment.

4. Training Concept. The object of the NAS Mod training program is to provide trained DASR/STARS maintenance technicians and operators to shore-based Navy and Marine Corps Air Traffic Control Facilities. The NAS Mod training program consists of initial and follow-on training for operators and maintenance personnel.

STARS Initial Training for CNATT instructor personnel was provided by the FAA in November 2003. The STARS pilot course at NATTC is scheduled for May 2004 (tentative). VIDS Initial training will be provided by SPAWARSYSCEN Charleston to NATTC Instructor personnel during fourth quarter FY04. All other initial training has been completed.

The existing follow-on operator course, C-222-2022, Advanced Radar Air Traffic Control, will be revised to include VIDS information. Follow-on DASR/STARS maintenance training will be accomplished by developing a new DASR/STARS maintenance pipeline.

a. Human Performance. Raytheon has identified the physical and cognitive capabilities of existing Navy and Marine Corps personnel (within a rating/NEC or MOS) and determined skills and knowledge capabilities. A requirements analysis was conducted to identify the media requirements of the NAS Mod training system to meet operational and maintenance training needs, i.e., those task and performance requirements that enable operators and technicians to operate and maintain the NAS Mod equipment in a ready condition. Human Performance requirements are stated in the individual, team, and collective tasks required to operate and maintain the ATC System. Optimizing performance of these tasks will ensure readiness on the part of the operator to perform the assigned missions. Critical human performance tasks that are appropriate to train using a Training Device (TD) constitute the overall training simulator requirement.

(1) Training Situation Analysis. Raytheon conducted a Training Situation Analysis to determine the changes required to the existing shore-based ATC training system in order to meet the NAS Mod training needs. The Training Situation Analysis considered the impact to both the operator and maintainer training programs and includes recommendations to modify or procure necessary training equipment and materials.

(2) Mission and Task Analysis. Raytheon analyzed the NAS Mod related individual and collective tasks. Each task was analyzed for difficulty level, frequency, importance, and skill decay factors, and a listing of NAS Mod tasks requiring training was generated. This source data was used to develop an Instructional Performance Requirements Document that contains the data used to support the design of the NAS Mod training program.

(3) Media Analysis. Raytheon used the task analysis results to identify the type of learning required, develop instructional strategies and methods, and identify the most effective media that supports the sensory stimulus required of each task. Raytheon developed and provided to the Government an Instructional Media Requirements Document to serve as the baseline for the instructional media performance specifications. This document contains a description of the primary and alternate media requirements and the functional requirements for the instructional delivery. Raytheon analyzed the existing shore-based ATC training systems for inclusion, exclusion, or modification and investigated the use of Computer-Based Training (CBT) to supplement classroom instruction. Based on the results of this analysis, Raytheon provided recommendations for the design and implementation of the NAS Mod training program, including safety, hazard, and environmental considerations.

Upon FAA and DoD approval of the design, Raytheon provided the FAA and DoD with an Instructional Media Package that contained the visual, textual, and audio design documentation for use in the development and presentation of operator and maintenance training.

b. Training Media Life Cycle Management. Operator and maintenance training courses will be managed by the Course Model Manager (CMM), NATTC Pensacola.

The Assistant Program Manager, Training Systems (APMTS), PMA2053E, is responsible for reviewing all NAS Mod Engineering Change Proposals (ECP) and assessing their impacts on the training system. NATTC Pensacola is responsible for maintaining the courseware concurrency for FAA standards and maintenance practices, respectively. The APMTS also ensures that changes to basic equipment include provisions to modify training equipment, and update training courses and curricula as necessary to maintain effective up-to-date training capabilities. Following the end of the manufacturer's interim training system support period, the day-to-day maintenance and support of operator trainers is funded by the Type Commander and managed under a Contractor Operation and Maintenance of Simulators (COMS) contract.

The Naval Education and Training Command (NETC) (via Chief of Naval Education and Training Instruction 1500.30) established policy, procedures, and responsibility for the administration and operation of the NETC training feedback program. This program provides a web-based homepage template containing a training feedback form icon. Each school is to develop a form following this format with a link back to the NETC homepage at https://www.netc.navy.mil/. This web page form is used to receive feedback on any training issue, training concerns, or to make general recommendations. A Fleet partnership program will also be established to develop a close relationship with representative samples of customers to evaluate the quality of the trained graduates and the relevance of skills trained. In conjunction

with this Fleet feedback program, a Human Performance Requirements Review (HPRR) process is required by OPNAV Instruction 1500.69A. HPRRs provide a process for resource and program sponsors to identify and correct training deficiencies.

c. Training Media and Delivery Method. The training media and delivery method for initial maintenance training included individual open book learning and On-the-Job Training (OJT). Initial operator training was accomplished using CBT. The training media and delivery method for follow-on operator and maintenance training includes instructor-led lectures and Practical Application (PA)/Laboratory.

d. Initial Training. Raytheon provided initial training for Operational Test and Evaluation (OT&E) personnel, site installation team members, and other key personnel. Raytheon provided initial DASR maintenance training to NATTC Pensacola instructors in January 2003. STARS Initial Training for CNATT instructor personnel was provided by the FAA and was completed in November 2003. The STARS Pilot course at NATTC is scheduled for May 2004 (tentative).

VIDS Initial Training for NATTC Instructor personnel has not been completed to date. NATTC is due scheduled for their VIDS (Build 2) installation in fourth quarter FY04. Initial training will be provided by SPAWARSYSCEN Charleston during fourth quarter FY04.

Initial Fleet operator and maintenance training is being accomplished during installation at each site. This installation and checkout course focuses on the Software User's Guide and OJT for STARS and VIDS. Operator training for Navy Air Traffic Controllers (AC rating) and Marine Corps Air Traffic Controllers (MOS 7257) is being accomplished using CBT simulator software, provided to each site during STARS installation. The course takes approximately twelve to fourteen hours to complete and can be run on any Personal Computer.

NAVAIR PMA2053E1 and PMA2132 will provide for STARS on-site operator training at each activity receiving STARS. Training will utilize Computer-Based Instruction (CBI) and "ATCoach" (ATCoach is a software training program) embedded software to familiarize Tower Controllers in TDW functionality, facility radar controllers in STARS/ATCoach operations, and Training Division personnel in ATCoach scenario building. Training will be provided in two phases. The first phase will occur six months prior to the activity attaining Initial Operating Capability (IOC) and will accomplish one week of training consisting of operator manual, quick reference guide, and CBI/ATCoach scenario training. The second phase will occur one month prior to the activity attaining IOC and will accomplish three weeks of formal training consisting of STARS/ATCoach operations, ATCoach scenario generation, and TDW functionality. For further information regarding STARS on-site operator training schedules contact NAVAIR PMA2053E1 or PMA2132.

e. Follow-on Training

(1) Operator. The current curriculum for course, C-222-2022, Advanced Radar Air Traffic Control, will be revised to include applicable STARS and VIDS information.

No increase in course length is anticipated. Civilian Air Traffic Controllers receive operator training from the FAA.

Title.....	**Advanced Radar Air Traffic Control**
CIN	C-222-2022
Model Manager	NATTC Pensacola
Description	This course provides training to the journeyman Navy or Marine Corps Air Traffic Controller, including: ° Advanced Classroom and Laboratory Instruction in Airspace Management ° Fleet Area Control and Surveillance Facility ° Naval Air Traffic Control Air Navigation Aids and Landing System ° Air Installation Compatible Use Zone ° OD-58 Indicator/Direct Altitude and Identity Readout (DAIR) Indoctrination ° Radar/Non-Radar Rules, Regulations, and Application Upon completion, the graduate will be able to perform the duties of an Advanced Radar Air Traffic Control Specialist in a shore-based environment under direct supervision.
Delivery Method	Total Course of Instruction .....160 hours Instructor-Led .....40 hours Instructor-Led with CAI .....0 hours ICW (not Instructor-Led).....0 periods PA/Laboratory .....120 hours PJT .....0 hours
Length.....	26 days
Location.....	NATTC Pensacola
Ready for Training (RFT) Date	Currently available. October 2006 with STARS and VIDS.
Skill Identifier	° AC 6901 ° MOS 7257
Technical Training Equipment (TTE), /Training Device (TD)	15G31 TD
Prerequisite.....	C-222-2010, Air Traffic Controller

(2) Maintainer. Follow-on DASR/STARS maintenance training will be accomplished by developing a new DASR/STARS maintenance training pipeline which will be phased-in over a five-year period beginning in October 2004. The following three existing maintenance pipelines will be phased-out on a parallel schedule:

- *C-103-2051, AN/TPX-42A(V)10 Radar Air Traffic Control Facility (RATCF) DAIR Maintenance Technician Pipeline*
- *C-103-2053, AN/TPX-42A(V)5 DAIR Maintenance Technician Pipeline*
- *C-103-2060, AN/GPN-27 Radar Maintenance Technician Pipeline*

Navy personnel completing the DASR/STARS courses will be awarded NEC 1517, *DASR/STARS Maintenance Technician*. Marine Corps personnel with MOS 5953, *Air Traffic Control Radar Technician*, will attend the Navy DASR/STARS maintenance training courses. A new MOS will not be required. Civilian maintenance technicians receive maintenance training from the FAA.

Title.....	**AN/TPX-42(V)10 RATCF DAIR Maintenance Technician Pipeline**
CIN	C-103-2051
Model Manager	NATTC Pensacola
Description	This course provides training to the Electronics Technician, including: ° Introduction to ATC Maintenance ° Electronics Safety ° 3-M ° ATC Systems Interface ° Microwave Devices ° Radar Theory ° Synchro/Servo Fundamentals ° Numbering Systems and Basic Logic ° Semiconductor and Digital Theory ° Memory Devices ° AN/UYX-1(V) and AN/TPX-42A(V)10 System Troubleshooting and Maintenance Upon completion, the graduate will be able to perform AN/TPX-42(V)10 RATCF DAIR equipment maintenance in an ATC environment under limited supervision.
Delivery Method	***C-103-2035*** Total Course of Instruction.....360 hours Instructor-Led .....158 hours Instructor-Led with CAI .....0 hours ICW (not Instructor-Led).....0 periods PA/Laboratory .....202 hours PJT .....0 hours
Length.....	96 days
Location.....	NATTC Pensacola
RFT Date	Currently available
Skill Identifier	ET 1578
TTE/TD	RATCF DAIR System
Prerequisites	° A-100-0148, Advanced Electronics Technician Core ° A-100-0147, ET Radar Strand “A” School

Title	**AN/TPX-42(V)5 DAIR Maintenance Technician Pipeline**
CIN	C-103-2053
Model Manager	NATTC Pensacola
Description	This course provides training for the Electronics Technician, including: ° Introduction to Air Traffic Control Maintenance ° Electronics Safety ° 3-M ° Air Traffic Control Systems Interface ° Microwave Devices ° Radar Theory ° Synchro/Servo Fundamentals ° Numbering Systems and Basic Logic ° Semiconductor and Digital Theory ° Memory Devices ° AN/UYX-1(V) and AN/TPX-42A(V)5 ° System Troubleshooting and Maintenance Upon completion, the graduate will be able to perform AN/TPX-42(V)5 DAIR equipment maintenance in an ATC environment under limited supervision.
Delivery Method	***C-103-2028*** Total Course of Instruction.....287 hours Instructor-Led .....126 hours Instructor-Led with CAI .....0 hours ICW (not Instructor-Led).....0 periods PA/Laboratory .....161 hours PJT .....0 hours
Length	85 days
Location	NATTC Pensacola
RFT Date	Currently available
Skill Identifier	ET 1574
TTE/TD	Basic DAIR System
Prerequisites	° A-100-0148, Advanced Electronics Technician Core ° A-100-0147, ET Radar Strand “A” School

Title	**AN/GPN-27 Radar Maintenance Technician Pipeline**
CIN	C-103-2060
Model Manager	NATTC Pensacola
Description	This course provides training to the Navy Electronics Technician or Marine Corps Air Traffic Control Radar Technician, including: ° AN/GPN-27 ASR System Maintenance ° Use and Operation of Test Equipment ° Alignment and Adjustment ° System Alarm and Fault Logic Circuits ° Command Processor and Memory ° Controller Circuits ° Transmitter ° Normal and Moving Target Indicator Video Receiver ° Receiver and Video Processor ° Planned Position Indicator Maintenance ° Remote Site Equipment ° Power Supplies ° Antenna and Waveguide System Upon completion, the graduate will be able to perform AN/GPN-27 Radar equipment maintenance in an ATC environment under limited supervision.
Delivery Method	***C-103-2036*** Total Course of Instruction.....416 hours Instructor-Led.....190 hours Instructor-Led with CAI.....0 hours ICW (not Instructor-Led).....0 periods PA/Laboratory.....226 hours PJT.....0 hours
Length	75 days
Location	NATTC Pensacola
RFT Date	Currently available
Skill Identifier	° Navy: ET 1580 ° Marine Corps: NA
TTE/TD	AN/GPN-27 Radar System

Prerequisites	Navy: ° A-100-0148, Advanced Electronics Technical Core ° A-100-0147, ET Radar Strand "A" School Marine Corps: ° C-100-2019, Marine Air Traffic Control Basic Technician ° C-103-2080, Marine Air Traffic Control Radar Technician Pipeline

Title.....	**DASR/STARS Maintenance Technician Pipeline**
CIN	C-103-2069
Model Manager	NATTC Pensacola
Description	This track will provide training to the Navy Electronics Technician or Marine Corps Air Traffic Control Radar Technician, including: ° Local Area Network, Wide Area Network, Universal Network Information Exchange, and Operating Systems Familiarization ° STARS Troubleshooting and Repair ° Terminal Automation System Maintenance ° DDM2800 Sony Digital Display Monitor Maintenance ° AN/FYC-22 Consolidated Control and Display System Display Alignment, Diagnostics, and Repair ° AN/GPN-30 Radar Troubleshooting and Maintenance ° Monopulse Secondary Surveillance Radar Troubleshooting and Maintenance ° Data Transfer Equipment Troubleshooting and Maintenance ° Publications and Safety Precautions Upon completion, the graduate will be able to perform DASR/STARS equipment maintenance in an ATC environment under limited supervision.

Title.....	**DASR/STARS Maintenance Technician Pipeline**
Delivery Method	***C-103-2018*** Total Course of Instruction.....200 hours Instructor-Led .....84 hours Instructor-Led with CAI .....0 hours ICW (not Instructor-Led).....0 periods PA/Laboratory .....116 hours PJT .....0 hours ***C-103-2025*** Total Course of Instruction.....240 hours Instructor-Led .....74 hours Instructor-Led with CAI .....0 hours ICW (not Instructor-Led).....0 periods PA/Laboratory .....166 hours PJT .....0 hours
Length.....	110 days
Location.....	NATTC Pensacola
RFT Date	October 2004
Skill Identifier	° Navy: ET 1517 ° Marine Corps: NA
TTE/TD	DASR/STARS and VIDS
Prerequisites	Navy: ° A-100-0148, Advanced Electronics Technical Core ° A-100-0147, ET Radar Strand “A” School Marine Corps: ° C-100-2019, Marine Air Traffic Control Basic Technician ° C-103-2080, Marine Air Traffic Control Radar Technician Pipeline

f. Student Profiles

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
AC 6901	° C-222-2010, Air Traffic Controller
ET 1517	° A-100-0148, Advanced Electronics Technical Core ° A-100-0147, ET Radar Strand "A" School
ET 1574, 1578, 1580	° A-100-0148, Advanced Electronics Technical Core ° A-100-0147, ET Radar Strand "A" School
MOS 5953	° C-100-2020, Avionics Common Core Class A1 ° C-100-2019, Marine Air Traffic Control Basic Technician ° C-103-2026, Miniature Component Repair ° C-103-2080, Marine Air Traffic Control Radar Technician Pipeline ° C-103-2072, Marine Air Traffic Control Technician Common Core Course
MOS 7257	° C-222-2010, Air Traffic Controller

g. Training Pipeline. The current Air Traffic Controller "A" school course curriculum will be revised to include applicable STARS and VIDS information. No increases in course lengths are anticipated. Additionally, the current Tower Operator Training System (TOTS) laboratory that supports the "A" school will require incorporation of VIDS like equipment that is compatible with the existing 15G32 TOTS TD. Training Equipment Change Request (TECR) Number TECR-42146-99-2547 has been approved and is scheduled to be completed no later than September 2004.

I. ONBOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development

a. Maintenance Training Improvement Program. NA

b. Aviation Maintenance Training Continuum System. NA

2. Personnel Qualification Standards. NA

3. Other Onboard or In-Service Training Packages. Upon completion of AC "A" school, each graduate is awarded an FAA certificate that qualifies that individual to work in an

ATC environment as a trainee. Each ATC activity has a Control Tower Operator (CTO) training package specifically tailored to the FAA rules and requirements of that specific location. Once the local training package has been successfully completed, an FAA CTO certificate is awarded. This certificate permits the recipient to perform as an Air Traffic Controller at that specific activity. The FAA CTO certificate is good only for the activity at which it was earned. Upon transfer to a new ATC activity, the individual must be recertified at that activity by successfully completing the CTO training package specifically developed for that activity.

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers

CONTRACT NUMBERS	MANUFACTURER	ADDRESS
F19628-96-D-0038 and DTFA01-96-D-03008	Raytheon Company Electronic Systems	1001 Boston Post Road Marlboro, MA 01752-3789

2. Program Documentation

DOCUMENT TITLE	DOCUMENT NUMBER	PDA CODE	STATUS
Statement of Operational Need	USAF SON 001-85	Air Force	Approved 11 Jun 87
Operational Requirements Document (ORD) for the NAS Mod	USAF ORD 04-87	Air Force	Approved 14 May 92
Naval and Marine Corps ATC Facility Transition Program	NA	SPAWARSYSCOM Code 313	Approved Dec 96
DASR Integrated Logistics Support Plan	ATC-ILSP-011	SPAWARSYSCOM	Approved Jul 98
STARS Phase II ORD	NA	JPO	Approved 18 Jun 95
U.S. Department of Transportation FAA and DoD STARS Phase III (Final) ORD	NA	JPO	Approved 30 May 96
DoD Air Traffic Control and Landing Systems in the National Airspace System Phase III (Final) ORD	HQ AFFSA 04-87	JPO	Draft 6 Jul 03

3. Technical Data Plan. Raytheon has designed technical manuals that provide the full range and depth of coverage to support the NAS Mod components. The Operations and Maintenance Manual describes the integration of all NDI and COTS equipment into a single system. The Field Installation Manual provides the procedures and information required for non-turnkey installation by SPAWARSYSCEN personnel at all Navy and Marine Corps facilities. Two sets of these manuals (paper and electronic media) will be delivered with each system along with one set of commercial manuals for all NDI and COTS equipment used. The Planned Maintenance System for DASR/VIDS was developed by SPAWARSYSCEN and consists of Maintenance Index Pages and MRCs. NAVAIR St. Inigoes, Maryland, developed the Planned Maintenance System for STARS.

4. Test Sets, Tools, and Test Equipment. A Lifting Beam and a Tilting Adjuster manufactured by Cossor Electronics Limited are both required at each operating site for removal and tilt adjustment of the Secondary Surveillance Radar Antenna. There is also a Monopulse Beacon Test Set that is required for the purpose of certifying the Monopulse Secondary Surveillance Radar.

5. Repair Parts. STARS onboard critical item spares are provided during installation. Interim supply support will be provided by Raytheon. A Material Support Date (MSD) of FY10 is scheduled. After the MSD, supply support will transition to the Naval Inventory Control Point, Mechanicsburg, Pennsylvania.

6. Human Systems Integration. HSI is an overarching element of Systems Engineering and the "HSI Process" is one of engineering coordination, facilitation, and advocacy with each competency participating in the design, engineering, ISD, and logistics processes. As an integral part of the Systems Engineering process, the goal of HSI is to balance the human engineering; manpower; personnel; training and performance support; environment, safety, and health; systems safety; habitability; and survivability requirements with design goals, thresholds, and constraints. An effective HSI program will increase overall system performance at the lowest total ownership cost by considering the capabilities and limitations of the warfighter throughout the system lifecycle. The Air Force is the NAS Mod lead for Human System Integration engineering policies, processes, and tools. The JPO assists the FAA and other DoD activities by providing administrative, analytical, and technical support in implementing HSI practices within their specific programs and program strategies.

a. Human Engineering. The NAS Mod components are NDI, consisting of modified COTS equipment. Where possible, NAVAIR PMA213 has arranged Navy NAS Mod installations to eliminate physical characteristics that require excessive cognitive, physical, or sensory skills, or entail extensive training or workload-intensive tasks.

b. Manpower. Current Navy and Marine Corps manpower will not change. The manpower allocated to operate the existing ATC system is adequate to support the NAS Mod.

c. Personnel. The basic skills required to operate and maintain the NAS Mod equipment are within the abilities of current NECs and MOSs. A new follow-on maintenance track has been developed to enhance these basic skills and address NAS Mod equipment

peculiarities. The skills required to operate the NAS Mod equipment are within the abilities of current NECs and MOSs. The Advanced Radar Air Traffic Control course is being modified to reflect equipment changes resulting from the incorporation of the NAS Mod.

d. Training and Performance Support. HSI factors that affect training are discussed in detail in paragraph H.4 of this NTSP.

e. Habitability. Habitability processes define requirements for the physical environment, personnel services, and living conditions that directly impact system performance and personnel quality of life and morale. NAS Mod has no outstanding Habitability issues.

f. Environment, Safety, and Health. A Programmatic Environmental, Safety, and Occupational Health (ESOH) Evaluation (PESHE) was jointly conducted by the Air Force and FAA and adopted by the NAS Mod JPO in 1997, which describes the JPO strategy for meeting ESOH requirements, establishing responsibilities, and identifying how progress will be tracked.

g. Survivability. Survivability processes address personnel protection against friendly fire; detection; and nuclear, biological, and chemical effects; address crew compartment integrity; and provide for emergency egress and special equipment or gear needed in the operational environment. NAS Mod has no outstanding Survivability issues.

h. System Safety. System Safety processes identify and prevent hazards associated with system design, integration, and use; and work with the PM and operational community to manage system safety risks, if they cannot be eliminated. NAS Mod has no outstanding System Safety issues.

K. SCHEDULES

1. Installation and Delivery Schedules. The installation schedule below shows both completed and proposed dates. Proposed dates may change based on design changes and equipment availability. Some Navy and Marine Corps ATC facilities are operated or maintained by civilian personnel. Part II of this NTSP only identifies the Navy and Marine Corps activities that have military manpower assigned, since civilian Air Traffic Controllers and maintenance technicians are trained at FAA facilities.

Installation sites are listed in the two tables which follow, first alphabetically and then by installation date (by earliest site installation).

Alphabetical Installation Schedule

LOCATION	STARS	DASR	VIDS
Indian Wells, CA	NA	Oct 2011	NA
MCAF Kaneohe Bay, HI	Jun 2002	Sep 2003	Aug 2002 Oct 2004[1]
MCAF Quantico, VA	Oct 2012	Oct 2012	Oct 2012
MCAGCG 29 Palms, CA	NA	Oct 2009	NA
MCAS Beaufort, SC	Apr 2002	Feb 2003	Apr 2002 Mar 2004[1]
MCAS Camp Pendleton, CA	Nov 2003	NA	Nov 2003
MCAS Cherry Point, NC	Oct 2006	Oct 2007	Oct 2006
MCAS Futenma, Japan	Oct 2009	Oct 2013	Oct 2009
MCAS Iwakuni, Japan	Oct 2007	Oct 2007	Oct 2007
MCAS Miramar, CA	Oct 2010	NA	Oct 2010
MCAS New River, NC	Oct 2010	Oct 2009	Oct 2007
MCAS Yuma, AZ	Jan 2006	Jan 2006	Jan 2006[1]
NAES Lakehurst, NJ	Sep 2003	NA	Sep 2003
NAF El Centro, CA	Oct 2011	Oct 2011	Oct 2011
NALF Orange Grove, TX	NA	NA	Oct 2007
NALF San Clemente, CA	Aug 2002	Sep 2004	Aug 2002
NAS Brunswick, ME	Jul 2005	Oct 2006	Jul 2005[1]
NAS Corpus Christi, TX	Oct 2008	Oct 2008	Oct 2008
NAS Fallon, NV	Oct 2010	Oct 2010	Oct 2010
NAS Jacksonville, FL	Oct 2009	Oct 2009	Oct 2009
NAS JRB Fort Worth, TX	Oct 2012	Oct 2011	Oct 2012
NAS JRB New Orleans, LA	Oct 2009	Oct 2009	Oct 2009
NAS JRB Willow Grove, PA	Oct 2002	May 2002	Oct 2002
NAS Keflavik, Iceland	Oct 2010	Oct 2010	Oct 2010
NAS Key West, FL	Nov 2004	Oct 2007	Aug 2004[1]
NAS Kingsville, TX	Oct 2007	Oct 2007	Oct 2007

LOCATION	STARS	DASR	VIDS
NAS Lemoore, CA	Oct 2006	Oct 2009	Oct 2006
NAS Meridian, MS	Oct 2010	Oct 2010	Oct 2010
NAS North Island, CA	Oct 2011	Oct 2011	Oct 2011
NAS Oceana, VA	May 2004	Apr 2004	Jun 2004
NAS Oceana Air Det Norfolk, VA	Oct 2001	NA	Aug 2004[1]
NAS Patuxent River, MD	May 2003	Jun 2003	May 2003
NAS Pensacola, FL	Oct 2005	Oct 2013	Oct 2005
NAS Whidbey Island, WA	Oct 2004	Jul 2004	Oct 2004[1]
NAS Whiting Field, FL	Aug 2004	Dec 2004[2]	Aug 2004[1]
NATTC Pensacola, FL (1)	Oct 2001	Sep 2002	Aug 2004[1]
NATTC Pensacola, FL (2)	Oct 2006	Oct 2010	Oct 2006
NAVSTA Mayport, FL	Oct 2006	Oct 2012	Oct 2006
NAVSTA Rota, Spain	Mar 2004	Sep 2003	Mar 2004
NAWS China Lake, CA	Oct 2009	NA	Oct 2009
NBVC Point Mugu, CA	Oct 2013	Oct 2013	Oct 2013
NOLF Cabaniss, TX	Oct 2008	NA	Oct 2008
NOLF Choctaw, FL	Oct 2005	NA	Oct 2005
NOLF Imperial Beach, CA	Oct 2011	NA	Oct 2011
NOLF Joe Williams	Oct 2010	NA	Oct 2010
NOLF San Nicolas Island, CA	NA	NA	Oct 2013
NOLF Waldron, TX	Oct 2008	NA	Oct 2008
NOLF Webster Field, MD	Aug 2003	NA	Aug 2003
NSF Diego Garcia	NA	NA	Oct 2006
Owens Valley, CA	NA	Oct 2012	NA
PMRF Barking Sands, HI	NA	NA	Oct 2006
Searles Valley, CA	NA	Oct 2008	NA
SSC Charleston, SC	Sep 2001	Oct 2001	Nov 1999

Chronological Installation Schedule

LOCATION	STARS	DASR	VIDS
SSC Charleston, SC	Sep-2001	Oct-2001	Nov-1999
NATTC Pensacola, FL (1)	Oct-2001	Sep-2002	Aug-2004[1]
NAS Oceana Air Det Norfolk, VA	Oct-2001	NA	Aug-2004[1]
MCAS Beaufort, SC	Apr-2002	Feb-2003	April 2002 Mar 2004[1]
MCAF Kaneohe Bay, HI	Jun-2002	Sep-2003	Aug 2002 Oct 2004[1]
NALF San Clemente, CA	Aug-2002	Sep-2004	Aug-2002
NAS JRB Willow Grove, PA	Oct-2002	May-2002	Oct-2002
NAS Patuxent River, MD	May-2003	Jun-2003	May-2003
NOLF Webster Field, MD	Aug-2003	NA	Aug-2003
NAES Lakehurst, NJ	Sep-2003	NA	Sep-2003
MCAS Camp Pendleton, CA	Nov-2003	NA	Nov-2003
NAVSTA Rota, Spain	Mar-2004	Sep-2003	Mar-2004
NAS Oceana, VA	May-2004	Apr-2004	Jun-2004
NAS Whiting Field, FL	Aug-2004	Dec-2004[2]	Aug-2004[1]
NAS Whidbey Island, WA	Oct-2004	Jul-2004	Oct-2004[1]
NAS Key West, FL	Nov-2004	Oct-2007	Aug-2004[1]
NAS Brunswick, ME	Jul-2005	Oct-2006	Jul-2005[1]
NAS Pensacola, FL	Oct-2005	Oct-2013	Oct-2005
NOLF Choctaw, FL	Oct-2005	NA	Oct-2005
NSF Diego Garcia	NA	NA	Oct-2006
PMRF Barking Sands, HI	NA	NA	Oct-2006
MCAS Yuma, AZ	Jan-2006	Jan-2006	Jan-2006[1]
MCAS Cherry Point, NC	Oct-2006	Oct-2007	Oct-2006
NAS Lemoore, CA	Oct-2006	Oct-2009	Oct-2006
NATTC Pensacola, FL (2)	Oct-2006	Oct-2010	Oct-2006
NAVSTA Mayport, FL	Oct-2006	Oct-2012	Oct-2006

LOCATION	STARS	DASR	VIDS
NALF Orange Grove, TX	NA	NA	Oct-2007
MCAS Iwakuni, Japan	Oct-2007	Oct-2007	Oct-2007
NAS Kingsville, TX	Oct-2007	Oct-2007	Oct-2007
MCAS New River, NC	Oct-2010	Oct-2009	Oct-2007
NAS Corpus Christi, TX	Oct-2008	Oct-2008	Oct-2008
NOLF Cabaniss, TX	Oct-2008	NA	Oct-2008
NOLF Waldron, TX	Oct-2008	NA	Oct-2008
Searles Valley, CA	NA	Oct-2008	NA
MCAGCG 29 Palms, CA	NA	Oct-2009	NA
NAS Jacksonville, FL	Oct-2009	Oct-2009	Oct-2009
NAS JRB New Orleans, LA	Oct-2009	Oct-2009	Oct-2009
MCAS Futenma, Japan	Oct-2009	Oct-2013	Oct-2009
NAWS China Lake, CA	Oct-2009	NA	Oct-2009
NAS Fallon, NV	Oct-2010	Oct-2010	Oct-2010
NAS Keflavik, Iceland	Oct-2010	Oct-2010	Oct-2010
NAS Meridian, MS	Oct-2010	Oct-2010	Oct-2010
MCAS Miramar, CA	Oct-2010	NA	Oct-2010
NOLF Joe Williams	Oct-2010	NA	Oct-2010
Indian Wells, CA	NA	Oct-2011	NA
NAF El Centro, CA	Oct-2011	Oct-2011	Oct-2011
NAS North Island, CA	Oct-2011	Oct-2011	Oct-2011
NOLF Imperial Beach, CA	Oct-2011	NA	Oct-2011
NAS JRB Fort Worth, TX	Oct-2012	Oct-2011	Oct-2012
Owens Valley, CA	NA	Oct-2012	NA
MCAF Quantico, VA	Oct-2012	Oct-2012	Oct-2012
NOLF San Nicolas Island, CA	NA	NA	Oct-2013
NBVC Point Mugu, CA	Oct-2013	Oct-2013	Oct-2013

2. Ready For Operational Use Schedule. The NAS Mod components will be Ready For Operational Use after successful installation, test, and certification by the installation crew. The air station ATC Operations Department will witness test and certification procedures where possible.

3. Time Required to Install at Operational Sites. DASR and STARS are being installed concurrently with each other where feasible. Installing the two systems together eliminates disrupting facility operations more than once for each system installation. The installation process will take five months to complete at each site. This includes setting up temporary ATC facilities if required, installing STARS and DASR, and the initial test and check of the new systems. Installation at each site will be accomplished via one of three methods listed below:

a. First Method. The concurrent approach method involves the installation of replacement systems side-by-side with the existing operational equipment. This method allows the current ATC equipment to remain fully operational while the new equipment is being installed and tested. It requires sufficient floor space available for parallel equipment installation, sufficient power for existing and replacement equipment, and sufficient heating, ventilation, and air conditioning capacity for existing and replacement equipment. Upon successful installation, test, and certification of the new equipment, the facility transitions over to the new system for operational use and the old systems are removed.

b. Second Method. The Marine Air Control Squadron (MACS) approach can be used when the concurrent approach method is not feasible due to facility space limitations. The MACS unit deploys to the airfield being upgraded and sets up mobile ATC equipment. Once the MACS is operational, control of all ATC operations is transferred to the MACS, and the old equipment is shut down for removal and replacement. MACS requirements include six months advanced scheduling; ample telephone landline circuits available at the MACS site; and messing, berthing, and transportation for MACS operators and maintainers. Requirements also include a letter of agreement between the MACS and Air Station-Air Operations, accurate field data in advance for the efficient setup and generation of video maps, and time for station controllers to train on MACS equipment and familiarize MACS controllers with local operations. Upon successful installation, test, and certification of the new equipment, the facility transitions over to the new system for operational use.

c. Third Method. The Transportable Air Traffic Control Facility (TATCF) Approach can be utilized when the concurrent approach is not technically feasible and no MACS unit is available. This approach involves the construction of mobile trailers with standard Navy ATC processing, display, communications control, and ancillary equipment. After the TATCF is set up, tested, and certified at an air station, control of the radar operations will be turned over to the TATCF and the old radar facility equipment will be removed and replaced with the new system. Requirements include construction of two sets of TATCF trailers, each with a full complement of standard Navy ATC systems, sitting close to the existing facility, with sufficient power for the trailers. The TATCF interfaces with the existing Precision Approach Radar, ASR, radios, and telephone landline circuits. Following successful testing and certification of the new systems, control is transferred back to the new equipment in the RATCF and ATC Tower.

4. Foreign Military Sales and Other Source Delivery Schedule. For Air Force, Army, or FAA delivery schedules contact the Developing Agency, NAVAIR PMA213.

5. Training Device and Technical Training Equipment Delivery Schedule. The ATC Master Plan (recommended) is shown in Figure 1 on page I-29. For more information on this plan, contact PMA205.

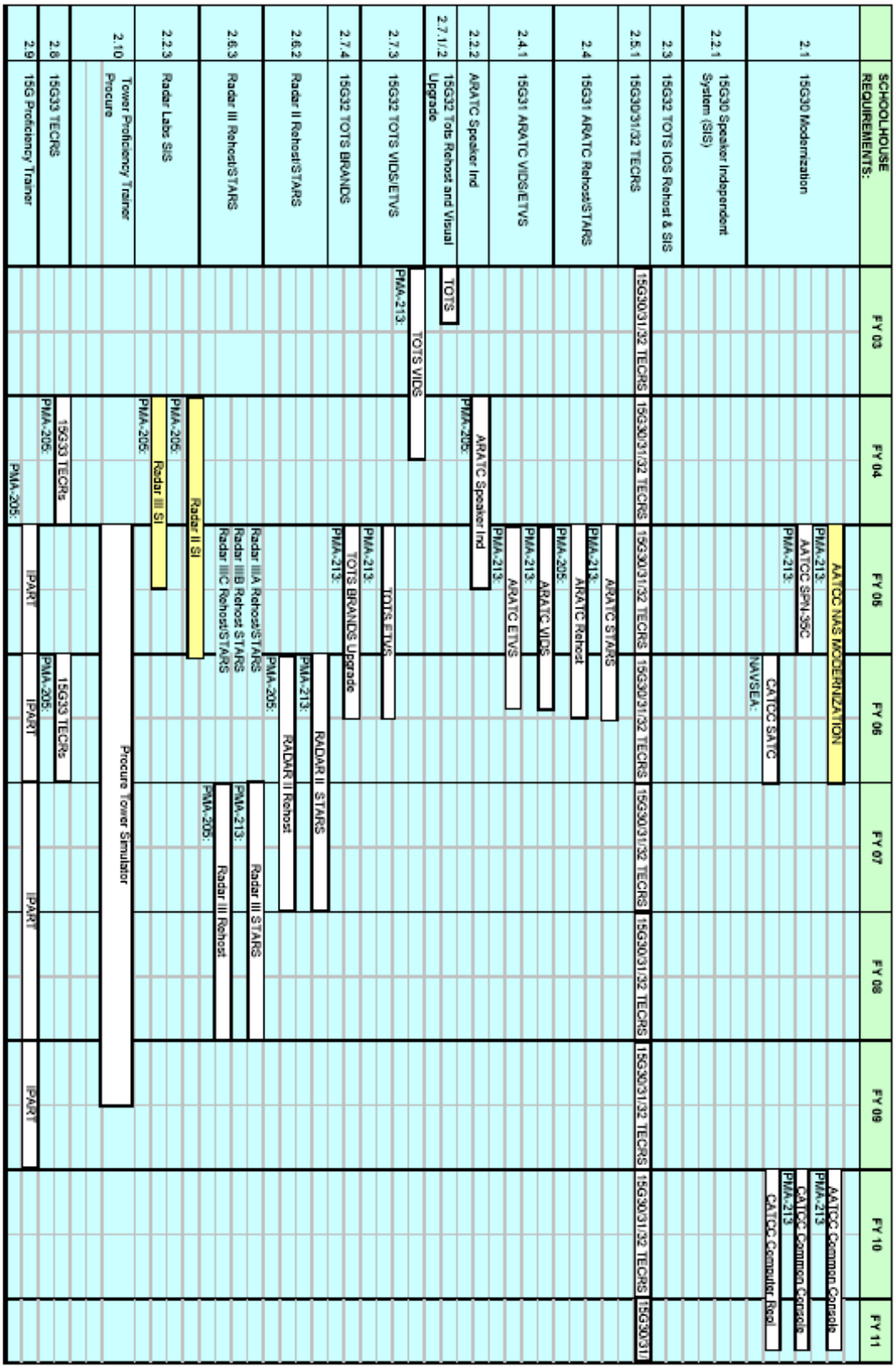
a. Maintenance Training. Two STARS are required to support maintenance training. One system was installed in FY02 and the second system is scheduled for installation in FY07 (tentative). Two DASR systems are also required to support maintenance training. The first was installed in FY03 and the second will be installed in FY11 (tentative). Two VIDS Systems, to be utilized as Technical Training Equipment (TTE), were installed at NATTC Pensacola in FY02. NATTC VIDS TTE will be upgraded to Software Build 2. The first of two VIDS TTE upgrades to Build 2 is scheduled for August 2004.

b. Operator Training. The current Advanced Radar Air Traffic Control (ARATC) laboratory will require incorporation of STARS and VIDS-like equipment that is compatible with the existing 15G31 ARATC TD. 15G31 TD upgrade to include STARS and VIDS is scheduled to begin in FY05. The TOTS laboratory will require incorporation of VIDS-like equipment that is compatible with the existing 15G32 TOTS TD. 15G32 TD upgrade to include VIDS is expected to be completed by September 2004.

L. GOVERNMENT-FURNISHED EQUIPMENT AND CONTRACTOR-FURNISHED EQUIPMENT TRAINING REQUIREMENTS. NA

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
Acquisition Logistics Support Plan for National Airspace Modernization Program	ATC-ALSP-24-00	PMA213	April 2003
National Airspace Modernization Program User's Logistics Support Summary (ULSS) For AN/FSQ-204 Department Of Defense (DOD) Advanced Automated System (DAAS)	ATC-ULSS-14-02, Appendix A	PMA213	Draft
AN/GPN-30 Digital Airport Surveillance Radar (DASR)	ULSS # ATC-ULSS-14-02, Appendix B	PMA213	Draft
AN/FYC-22 Visual Information Display System (VIDS)	ULSS # ATC-ULSS-14-02, Appendix C	PMA213	Draft



NOTE: Estimates do not reflect WorkYear Requirements.
1. SCHOOLHOUSE PRIORITIES ARE AS SHOWN IN YELLOW
2. Funding line is as follows: Funding source, Required funding, Available funding or (Shortfall, if any)

Figure 1. ATC Master Plan (recommended)

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the NAS Mod NTSP and, therefore, are not included in Part II of this NTSP:

II.A. Billet Requirements

II.A.2.a. Operational and Fleet Support Activity Deactivation Schedule

Note 1: The following lists of USN and USMC activities represent all activities that contain billets relevant to NAS Mod. The Navy
maintainer billets are from the Electronics Technician rating with NEC 1574, 1578, or 1580. The new DASR/STARS Maintenance Technician NEC 1517 will replace NECs 1574, 1578, and 1580. This represents a qualitative change only. There is no quantitative change in Navy or Marine Corps billets. The Marine Corps billets are MOS 5953. Marine Corps MOS 5953 will not be replaced.

Note 2: Those activities listed with an asterisk (*) may not correspond exactly to activities listed in the Installation and Delivery Schedule in Part I, section K. of this NTSP. However, all operator and maintainer billets that exist for personnel holding a relevant NEC or MOS must be taken into account when calculating student training requirements.

Note 3: Section II.A.1.b shows billets that are currently in place; however, those shown as “FY0X NEC Change” require a change from NECs 1574, 1578, and 1580 to NEC 1517, to occur in that fiscal year.

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

SOURCE OF NAVY BILLETS: Total Force Manpower Management System **DATE:** Aug 2003
SOURCE OF USMC BILLETS: Table of Manpower Requirements, TFS **DATE:** Sep 2003

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

ACTIVITY, UIC		PFYs	CFY04	FY05	FY06	FY07	FY08
FLEET SUPPORT ACTIVITIES - USN							
* Atlantic Fleet Weapons Training Facility	0017A	1	0	0	0	0	0
* CPRFP NAVSUPDET	32405	1	0	0	0	0	0
* FACSFAC Jacksonville	53895	1	0	0	0	0	0
* FACSFACVACAPES	42239	1	0	0	0	0	0
* NAF Washington, DC	00166	1	0	0	0	0	0
* NAS Patuxent River, MD - Navy Test Pilot	44689	1	0	0	0	0	0
* NAVAIR NWCF	64485	1	0	0	0	0	0
* NAVCONS REG 1	17171	1	0	0	0	0	0
* NAVTECHTRA Keesler AFB	35970	1	0	0	0	0	0
* OPNAV	00011	1	0	0	0	0	0
* SPAWARSYSCEN	65236	1	0	0	0	0	0
NAS Brunswick, ME	3193B	1	0	0	0	0	0
NAS Jacksonville, FL	00207	1	0	0	0	0	0
NAS JRB Willow Grove, PA	00158	1	0	0	0	0	0
NAS Keflavik, Iceland	63032	1	0	0	0	0	0
NAS Key West, FL	00213	1	0	0	0	0	0
NAS Oceana Air Det Norfolk, VA	00188	1	0	0	0	0	0
NAS Oceana, VA	60191	1	0	0	0	0	0
NAS Patuxent River, MD	47608	1	0	0	0	0	0
NATTC Pensacola, FL	63093	1	0	0	0	0	0
NAVSTA Mayport, FL	60201	1	0	0	0	0	0
NAVSTA Rota, Spain	62863	1	0	0	0	0	0
NAS Kingsville, TX - Undergrad Pilot Training,	42095	1	0	0	0	0	0
* FACSFAC Pearl Harbor, HI	43583	1	0	0	0	0	0
* FACSFAC San Diego, CA	09528	1	0	0	0	0	0
NAF Atsugi, Japan	62507	1	0	0	0	0	0
NALF San Clemente, CA	31466	1	0	0	0	0	0
NAS Corpus Christi, TX - Undergrad Pilot	42094	1	0	0	0	0	0
NAS Fallon, NV	60495	1	0	0	0	0	0
NAS JRB Fort Worth, TX	83447	1	0	0	0	0	0
NAS Lemoore, CA	63042	1	0	0	0	0	0
NAS North Island, CA	00246	1	0	0	0	0	0
NAS Whidbey Island, WA	00620	1	0	0	0	0	0
NAVBASE Ventura County, CA - Pt Mugu	69232	1	0	0	0	0	0
NSF Diego Garcia	68539	1	0	0	0	0	0
TOTAL:		35	0	0	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

ACTIVITY, UIC		PFYs	CFY04	FY05	FY06	FY07	FY08
FLEET SUPPORT ACTIVITIES - USMC							
* ATC Detachments East	XXXXX	1	0	0	0	0	0
* MACS 23 HQ, MACG 48 Aurora	01283	1	0	0	0	0	0
* MACS 24 HQ, MACG 48 Dam Neck	01309	1	0	0	0	0	0
* MATSG-21 Pensacola	06050	1	0	0	0	0	0
* Navy Department Washington	54008	1	0	0	0	0	0
MCAF Quantico, VA	02403	1	0	0	0	0	0
MCAS Beaufort, SC	02031	1	0	0	0	0	0
MCAS Cherry Point, NC	02002	1	0	0	0	0	0
MCAS New River, NC	02021	1	0	0	0	0	0
* ATC Detachment A MACS 24 Ft Worth	01236	1	0	0	0	0	0
* ATC Detachments West	XXXXX	1	0	0	0	0	0
* HQ, MCB Camp Butler	01027	1	0	0	0	0	0
MACS 1 HQ Yuma	09541	1	0	0	0	0	0
MCAF Kaneohe Bay, HI	02303	1	0	0	0	0	0
MCAS Camp Pendleton, CA	02208	1	0	0	0	0	0
MCAS Futenma, Japan	02601	1	0	0	0	0	0
MCAS Iwakuni, Japan	02501	1	0	0	0	0	0
MCAS Miramar, CA	02201	1	0	0	0	0	0
MCAS Yuma, AZ	02230	1	0	0	0	0	0
TOTAL:		19	0	0	0	0	0

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
FLEET SUPPORT ACTIVITIES - USN					
*** Atlantic Fleet Weapons Training Facility, 0017A**					
ACDU	0	4	AC1	6901	
	0	8	AC2	6901	
ACTIVITY TOTAL:	0	12			
*** CPRFP NAVSUPDET, 32405**					
ACDU	0	1	ACCS	6901	
	0	2	ACC	6901	
	0	6	AC1	6901	
	0	9	AC2	6901	
ACTIVITY TOTAL:	0	18			
*** FACSFAC Jacksonville, 53895**					
ACDU	0	3	AC1	6901	
	0	2	AC2	6901	
ACTIVITY TOTAL:	0	5			
*** FACSFACVACAPES, 42239**					
ACDU	0	3	AC1	6901	
	0	8	AC2	6901	
ACTIVITY TOTAL:	0	11			
*** NAF Washington, DC, 00166**					
ACDU	0	2	ACC	6901	
ACTIVITY TOTAL:	0	2			
*** NAS Patuxent River, MD - Navy Test Pilot School, 44689**					
ACDU	0	1	AC1	6901	
ACTIVITY TOTAL:	0	1			
*** NAVAIR NWCF, 64485**					
ACDU	0	1	ACC	6901	
	0	1	ACC	6902	6901
ACTIVITY TOTAL:	0	2			
*** NAVCONS REG 1, 17171**					
ACDU	0	1	ET2	1574	9527
*** NAVCONS REG 1, 17171, FY08 Increment**					

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACDU	0	1	ET2	1517	9527
ACTIVITY TOTAL:	0	2			
*** NAVTECHTRA Keesler AFB, 35970**					
ACDU	0	1	ACC	6901	6902
ACTIVITY TOTAL:	0	1			
*** OPNAV, 00011**					
ACDU	0	1	ACC	6901	
ACTIVITY TOTAL:	0	1			
*** SPAWARSYSCEN, 65236**					
ACDU	0	1	ACC	6901	
ACTIVITY TOTAL:	0	1			
NAS Brunswick, ME, 3193B					
ACDU	0	23	AC1	6901	
	0	21	AC2	6901	
	0	1	ET1	1480	1578
	0	1	ET1	1580	1578
	0	1	ET2	1578	9526
	0	1	ET2	1580	1540
NAS Brunswick, ME, 3193B, FY06 Increment					
ACDU	0	1	ET1	1480	1517
	0	1	ET1	1517	
NAS Brunswick, ME, 3193B, FY07 Increment					
ACDU	0	1	ET2	1517	1540
NAS Brunswick, ME, 3193B, FY09 Increment					
ACDU	0	1	ET2	1517	9526
ACTIVITY TOTAL:	0	52			
NAS Jacksonville, FL, 00207					
ACDU	0	1	ETC	1579	1580
	0	1	ET1	1471	1574
	0	1	ET1	1579	1580
	0	1	ET2	1574	
	0	1	ET2	1574	9527
	0	2	ET2	1579	1580
NAS Jacksonville, FL, 00207, FY05 Increment					

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACDU	0	1	ET1	1471	1517
	0	2	ET2	1579	1517
NAS Jacksonville, FL, 00207, FY06 Increment					
ACDU	0	1	ET1	1579	1517
NAS Jacksonville, FL, 00207, FY07 Increment					
ACDU	0	1	ETC	1579	1517
NAS Jacksonville, FL, 00207, FY08 Increment					
ACDU	0	1	ET2	1517	
	0	1	ET2	1517	9527
ACTIVITY TOTAL:	0	14			
NAS JRB Willow Grove, PA, 00158					
ACDU	0	1	ETC	1574	1579
	0	1	ET1	1579	1574
	0	1	ET2	1579	1574
TAR	0	1	ET1	1579	1580
	0	1	ET2	1579	1580
NAS JRB Willow Grove, PA, 00158, FY05 Increment					
ACDU	0	1	ETC	1517	1579
NAS JRB Willow Grove, PA, 00158, FY06 Increment					
ACDU	0	1	ET1	1579	1517
NAS JRB Willow Grove, PA, 00158, FY07 Increment					
ACDU	0	1	ET2	1579	1517
NAS JRB Willow Grove, PA, 00158, FY08 Increment					
TAR	0	1	ET1	1579	1517
NAS JRB Willow Grove, PA, 00158, FY09 Increment					
TAR	0	1	ET2	1579	1517
ACTIVITY TOTAL:	0	10			
NAS Keflavik, Iceland, 63032					
ACDU	0	1	ACC	6901	6904
	0	4	AC1	6901	
	0	1	AC2	6901	
SELRES	0	1	ACC	6901	
	0	2	AC1	6901	
	0	2	AC2	6901	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACTIVITY TOTAL:	0	11			
NAS Key West, FL, 00213					
ACDU	0	16	AC1	6901	
	0	1	AC1	6901	9527
	0	17	AC2	6901	
	0	1	ETC	1580	1579
	0	4	ET2	1578	
	0	2	ET2	1580	
	0	1	ET3	1578	
	0	2	ET3	1580	
SELRES	0	1	ET1	1578	
	0	1	ET1	1580	
	0	1	ET2	1574	1579
	0	1	ET2	1578	
	0	2	ET2	1580	
NAS Key West, FL, 00213, FY05 Increment					
ACDU	0	1	ET2	1517	
	0	2	ET3	1517	
SELRES	0	1	ET1	1517	
	0	2	ET2	1517	
NAS Key West, FL, 00213, FY06 Increment					
ACDU	0	1	ETC	1517	1579
	0	1	ET2	1517	
SELRES	0	1	ET1	1517	
NAS Key West, FL, 00213, FY07 Increment					
ACDU	0	4	ET2	1517	
SELRES	0	1	ET2	1517	1579
NAS Key West, FL, 00213, FY08 Increment					
ACDU	0	1	ET3	1517	
SELRES	0	1	ET2	1517	
ACTIVITY TOTAL:	0	66			
NAS Oceana Air Det Norfolk, VA, 00188					
ACDU	0	1	ET2	1574	9527
	0	4	ET2	1579	1574

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
NAS Oceana Air Det Norfolk, VA, 00188, FY05 Increment					
ACDU	0	1	ET2	1579	1517
NAS Oceana Air Det Norfolk, VA, 00188, FY06 Increment					
ACDU	0	1	ET2	1579	1517
NAS Oceana Air Det Norfolk, VA, 00188, FY07 Increment					
ACDU	0	1	ET2	1579	1517
NAS Oceana Air Det Norfolk, VA, 00188, FY08 Increment					
ACDU	0	1	ET2	1517	9527
	0	1	ET2	1579	1517
ACTIVITY TOTAL:	0	10			
NAS Oceana, VA, 60191					
ACDU	0	1	ACCM	6901	
	0	27	AC1	6901	
	0	28	AC2	6901	
	0	1	ET1	1480	1578
	0	1	ET1	1580	
	0	1	ET2	1578	
	0	2	ET2	1578	9526
	0	2	ET2	1580	9526
	0	2	ET3	1578	
	0	1	ET3	1580	
NAS Oceana, VA, 60191, FY05 Increment					
ACDU	0	1	ET1	1517	
NAS Oceana, VA, 60191, FY06 Increment					
ACDU	0	1	ET2	1517	
	0	1	ET3	1517	
NAS Oceana, VA, 60191, FY07 Increment					
ACDU	0	2	ET2	1517	9526
NAS Oceana, VA, 60191, FY08 Increment					
ACDU	0	2	ET2	1517	9526
	0	2	ET3	1517	
NAS Oceana, VA, 60191, FY09 Increment					
ACDU	0	1	ET1	1480	1517
ACTIVITY TOTAL:	0	76			
NAS Patuxent River, MD, 47608					
ACDU	0	1	ACCS	6901	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACDU	0	4	ACC	6901	
	0	8	AC1	6901	
	0	8	AC2	6901	
	0	1	ET1	1578	
	0	1	ET1	1580	
	0	2	ET2	1578	
	0	1	ET2	1578	9527
	0	1	ET2	1580	
	0	1	ET2	1580	1480
	0	2	ET3	1578	
	0	1	ET3	1580	9527
NAS Patuxent River, MD, 47608, FY05 Increment					
ACDU	0	2	ET1	1517	
	0	1	ET3	1517	9527
NAS Patuxent River, MD, 47608, FY06 Increment					
ACDU	0	2	ET2	1517	
NAS Patuxent River, MD, 47608, FY08 Increment					
ACDU	0	1	ET2	1517	
	0	2	ET3	1517	
	0	1	ET3	1517	9527
NAS Patuxent River, MD, 47608, FY09 Increment					
ACDU	0	1	ET2	1517	1480
	0	1	ET2	1517	9527
ACTIVITY TOTAL:	0	42			
NATTC Pensacola, FL, 63093					
ACDU	0	1	ACC	6901	6902
	0	2	ETC	1574	9502
	0	2	ET1	1574	9502
	0	2	ET1	1578	9502
	0	2	ET1	1580	9502
NATTC Pensacola, FL, 63093, FY06 Increment					
ACDU	0	2	ET1	1517	9502
NATTC Pensacola, FL, 63093, FY07 Increment					
ACDU	0	2	ETC	1517	9502
NATTC Pensacola, FL, 63093, FY08 Increment					
ACDU	0	2	ET1	1517	9502
NATTC Pensacola, FL, 63093, FY09 Increment					
ACDU	0	2	ET1	1517	9502

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACTIVITY TOTAL:	0	17			
NAVSTA Mayport, FL, 60201					
ACDU	0	1	ETC	1580	1574
	0	1	ET1	1574	
	0	1	ET1	1574	1480
	0	1	ET1	1580	
	0	3	ET2	1580	1480
	0	1	ET3	1574	
	0	2	ET3	1580	
NAVSTA Mayport, FL, 60201, FY05 Increment					
ACDU	0	1	ETC	1517	
	0	1	ET1	1517	
	0	2	ET2	1517	1480
NAVSTA Mayport, FL, 60201, FY06 Increment					
ACDU	0	1	ET1	1517	
	0	1	ET1	1517	1480
NAVSTA Mayport, FL, 60201, FY07 Increment					
ACDU	0	1	ET2	1517	1480
NAVSTA Mayport, FL, 60201, FY08 Increment					
ACDU	0	3	ET3	1517	
ACTIVITY TOTAL:	0	20			
NAVSTA Rota, Spain, 62863					
ACDU	0	1	ACC	6901	6904
	0	5	AC1	6901	
	0	1	AC1	6901	6904
	0	1	ET1	1580	
	0	1	ET2	1574	9527
	0	1	ET2	1580	1574
	0	1	ET2	1580	9526
	0	1	ET3	1579	1580
	0	1	ET3	1580	
	0	1	ET3	1580	1574
NAVSTA Rota, Spain, 62863, FY05 Increment					
ACDU	0	1	ET2	1517	9526
NAVSTA Rota, Spain, 62863, FY06 Increment					
ACDU	0	1	ET3	1579	1517
NAVSTA Rota, Spain, 62863, FY08 Increment					

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACDU	0	2	ET3	1517	
NAVSTA Rota, Spain, 62863, FY09 Increment					
ACDU	0	1	ET1	1517	
	0	1	ET2	1517	
	0	1	ET2	1517	9527
ACTIVITY TOTAL:	0	21			
NAS Kingsville, TX - Undergrad Pilot Training,, 42095					
ACDU	0	1	ACCS	6901	6904
	0	3	ACC	6901	6904
	0	15	AC1	6901	
	0	1	ETC	1578	
	0	2	ET1	1580	
	0	4	ET2	1578	
NAS Kingsville, TX - Undergrad Pilot Training,, 42095, FY07 Increment					
ACDU	0	2	ET1	1517	
	0	2	ET2	1517	
NAS Kingsville, TX - Undergrad Pilot Training,, 42095, FY08 Increment					
ACDU	0	2	ET2	1517	
NAS Kingsville, TX - Undergrad Pilot Training,, 42095, FY09 Increment					
ACDU	0	1	ETC	1517	
ACTIVITY TOTAL:	0	33			
*** FACSFAC Pearl Harbor, HI, 43583**					
ACDU	0	1	ACC	6901	
	0	3	AC1	6901	
ACTIVITY TOTAL:	0	4			
*** FACSFAC San Diego, CA, 09528**					
ACDU	0	1	ACC	6901	
	0	6	AC1	6901	
	0	6	AC2	6901	
ACTIVITY TOTAL:	0	13			
NAF Atsugi, Japan, 62507					
ACDU	0	1	ACC	6901	
	0	2	AC2	6901	
	0	2	AC3	6901	
SELRES	0	1	AC1	6901	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
SELRES	0	6	AC2	6901	
	0	1	AC3	6901	
ACTIVITY TOTAL:	0	13			
NALF San Clemente, CA, 31466					
ACDU	0	3	AC1	6901	
	0	2	AC2	6901	
	0	1	ET1	1579	1580
	0	2	ET2	1502	1574
	0	1	ET3	1480	1580
	0	1	ET3	1574	1580
	0	1	ET3	1580	9527
NALF San Clemente, CA, 31466, FY05 Increment					
ACDU	0	2	ET2	1502	1517
NALF San Clemente, CA, 31466, FY06 Increment					
ACDU	0	1	ET3	1480	1517
NALF San Clemente, CA, 31466, FY07 Increment					
ACDU	0	1	ET3	1517	
	0	1	ET3	1517	9527
NALF San Clemente, CA, 31466, FY09 Increment					
ACDU	0	1	ET1	1579	1517
ACTIVITY TOTAL:	0	17			
NAS Corpus Christi, TX - Undergrad Pilot Training, 42094					
ACDU	0	1	ET1	1579	1574
	0	4	ET2	1579	1574
NAS Corpus Christi, TX - Undergrad Pilot Training, 42094, FY05 Increment					
ACDU	0	1	ET2	1579	1517
NAS Corpus Christi, TX - Undergrad Pilot Training, 42094, FY06 Increment					
ACDU	0	1	ET2	1579	1517
NAS Corpus Christi, TX - Undergrad Pilot Training, 42094, FY07 Increment					
ACDU	0	1	ET2	1579	1517
NAS Corpus Christi, TX - Undergrad Pilot Training, 42094, FY08 Increment					
ACDU	0	1	ET2	1579	1517
NAS Corpus Christi, TX - Undergrad Pilot Training, 42094, FY09 Increment					
ACDU	0	1	ET1	1579	1517

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACTIVITY TOTAL:	0	10			
NAS Fallon, NV, 60495					
ACDU	0	1	ACCM	6901	
	0	1	ACCS	6901	
	0	3	ACC	6901	
	0	15	AC1	6901	
	0	12	AC2	6901	
ACTIVITY TOTAL:	0	32			
NAS JRB Fort Worth, TX, 83447					
ACDU	0	1	ETC	1574	1580
	0	1	ET1	1580	1570
	0	1	ET3	1580	1579
TAR	0	1	ET1	1574	
	0	1	ET1	1579	1574
	0	1	ET1	1580	
NAS JRB Fort Worth, TX, 83447, FY06 Increment					
TAR	0	1	ET1	1517	
NAS JRB Fort Worth, TX, 83447, FY07 Increment					
ACDU	0	1	ET1	1517	1570
NAS JRB Fort Worth, TX, 83447, FY08 Increment					
ACDU	0	1	ETC	1517	
TAR	0	1	ET1	1517	
	0	1	ET1	1579	1517
NAS JRB Fort Worth, TX, 83447, FY09 Increment					
ACDU	0	1	ET3	1517	1579
ACTIVITY TOTAL:	0	12			
NAS Lemoore, CA, 63042					
ACDU	0	1	ACCM	6901	6902
	0	1	ACCS	6901	
	0	2	ACC	6901	
	0	10	AC1	6901	
	0	15	AC2	6901	
ACTIVITY TOTAL:	0	29			
NAS North Island, CA, 00246					
ACDU	0	3	ACC	6901	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACDU	0	5	AC1	6901	
	0	5	AC2	6901	
	0	1	ET1	1578	
	0	1	ET2	1578	
	0	3	ET2	1580	
NAS North Island, CA, 00246, FY05 Increment					
ACDU	0	1	ET2	1517	
NAS North Island, CA, 00246, FY06 Increment					
ACDU	0	1	ET2	1517	
NAS North Island, CA, 00246, FY07 Increment					
ACDU	0	2	ET2	1517	
NAS North Island, CA, 00246, FY09 Increment					
ACDU	0	1	ET1	1517	
ACTIVITY TOTAL:	0	23			
NAS Whidbey Island, WA, 00620					
ACDU	0	1	ACCM	6901	
	0	1	ACCS	6901	6904
	0	6	ACC	6901	
	0	15	AC1	6901	
	0	16	AC2	6901	
	0	1	ETC	1580	
	0	1	ET1	1578	
	0	1	ET2	1578	
	0	1	ET2	1580	1480
	0	1	ET2	1580	9527
NAS Whidbey Island, WA, 00620, FY05 Increment					
ACDU	0	1	ET1	1517	
	0	1	ET2	1517	9527
NAS Whidbey Island, WA, 00620, FY06 Increment					
ACDU	0	1	ET2	1517	
NAS Whidbey Island, WA, 00620, FY07 Increment					
ACDU	0	1	ET2	1517	1480
NAS Whidbey Island, WA, 00620, FY09 Increment					
ACDU	0	1	ETC	1517	
ACTIVITY TOTAL:	0	49			
NAVBASE Ventura County, CA - Pt Mugu, 69232					

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACDU	0	5	ACC	6901	
	0	5	AC1	6901	
	0	44	AC2	6901	
	0	1	ETC	1578	1580
	0	2	ET1	1578	
	0	1	ET1	1580	
	0	1	ET2	1570	1580
	0	1	ET2	1580	
	0	1	ET2	1580	1480
SELRES	0	1	ET2	1578	9527
	0	1	ET2	1580	
NAVBASE Ventura County, CA - Pt Mugu, 69232, FY05 Increment					
ACDU	0	2	ET1	1517	
NAVBASE Ventura County, CA - Pt Mugu, 69232, FY06 Increment					
ACDU	0	1	ET1	1517	
	0	1	ET2	1517	1480
NAVBASE Ventura County, CA - Pt Mugu, 69232, FY07 Increment					
ACDU	0	1	ET2	1517	
	0	1	ET2	1570	1517
NAVBASE Ventura County, CA - Pt Mugu, 69232, FY08 Increment					
SELRES	0	1	ET2	1517	
	0	1	ET2	1517	9527
NAVBASE Ventura County, CA - Pt Mugu, 69232, FY09 Increment					
ACDU	0	1	ETC	1517	
ACTIVITY TOTAL:	0	72			
NSF Diego Garcia, 68539					
ACDU	0	3	AC1	6901	
ACTIVITY TOTAL:	0	3			
FLEET SUPPORT ACTIVITIES - USMC					
*** ATC Detachments East, XXXXX**					
USMC	0	8	CPL	5953	
	0	8	CPL	7252	7257
	0	8	CPL	7254	7257
	0	8	CPL	7257	
	0	4	GYSGT	5953	
	0	12	GYSGT	7257	
	0	16	LCPL	5953	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	28	LCPL	7252	7257
	0	44	LCPL	7253	7257
	0	4	LCPL	7257	
	0	12	SGT	7254	7257
	0	4	SGT	7257	
	0	4	SSGT	5953	
	0	16	SSGT	7257	
	0	4	SGT	5953	
	0	8	SGT	7252	7257
ACTIVITY TOTAL:	0	188			
*** MACS 23 HQ, MACG 48 Aurora, 01283**					
USMC	0	1	LCPL	5953	
	0	1	SGT	5953	
	0	1	CPL	7253	7257
SMCR	0	1	GYSGT	7257	
	0	1	LCPL	5953	
	0	1	SGT	5953	
ACTIVITY TOTAL:	0	6			
*** MACS 24 HQ, MACG 48 Dam Neck, 01309**					
USMC	0	1	LCPL	5953	
	0	1	SGT	5953	
	0	1	CPL	7253	7257
SMCR	0	1	GYSGT	7257	
	0	1	LCPL	5953	
ACTIVITY TOTAL:	0	5			
*** MATSG-21 Pensacola, 06050**					
USMC	0	5	CPL	5953	
	0	1	GYSGT	5953	
	0	4	LCPL	5953	
	0	5	SSGT	5953	
	0	8	SGT	5953	
ACTIVITY TOTAL:	0	23			
*** Navy Department Washington, 54008**					
USMC	0	1	GYSGT	5953	
	0	1	GYSGT	7257	
	0	1	GYSGT	9960	5953

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACTIVITY TOTAL:	0	3			
MCAF Quantico, VA, 02403					
USMC	0	1	CPL	5953	
	0	8	CPL	7252	7257
	0	1	CPL	7257	7253
	0	1	GYSGT	7257	
	0	2	LCPL	5953	
	0	1	LCPL	7252	7257
	0	5	LCPL	7253	7257
	0	3	SGT	7253	7257
	0	3	SSGT	7257	
	0	2	SGT	7252	7257
	0	4	CPL	7253	7257
ACTIVITY TOTAL:	0	31			
MCAS Beaufort, SC, 02031					
USMC	0	2	CPL	5953	
	0	3	CPL	7252	7257
	0	2	CPL	7257	
	0	1	CPL	7257	7253
	0	2	GYSGT	7257	
	0	2	LCPL	5953	
	0	7	LCPL	7252	7257
	0	9	LCPL	7253	7257
	0	3	SGT	7253	7257
	0	8	SSGT	7257	
	0	1	SGT	5953	
	0	3	SGT	7252	7257
SMCR	0	2	CPL	5953	
ACTIVITY TOTAL:	0	45			
MCAS Cherry Point, NC, 02002					
USMC	0	1	CPL	5953	
	0	3	CPL	7252	7257
	0	1	CPL	7257	7253
	0	2	GYSGT	7257	
	0	1	LCPL	5953	
	0	4	LCPL	7252	7257
	0	2	LCPL	7253	7257
	0	5	SGT	7254	7257
	0	1	SSGT	5953	
	0	13	SSGT	7257	
	0	1	SGT	5953	
	0	4	SGT	7252	7257

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	5	CPL	7253	7257
SMCR	0	1	CPL	5953	
ACTIVITY TOTAL:	0	44			
MCAS New River, NC, 02021					
USMC	0	3	CPL	5953	
	0	8	CPL	7252	7257
	0	1	CPL	7257	7253
	0	2	GYSGT	7257	
	0	11	LCPL	7252	7257
	0	3	LCPL	7253	7257
	0	3	SGT	7253	7257
	0	7	SSGT	7257	
	0	2	SGT	5953	
	0	3	SGT	7252	7257
	0	1	CPL	7253	7257
SMCR	0	1	CPL	5953	
ACTIVITY TOTAL:	0	45			
*** ATC Detachment A MACS 24 Ft Worth, 01236**					
USMC	0	1	GYSGT	5953	
	0	1	GYSGT	7257	
	0	1	SSGT	5953	
	0	1	SGT	5953	
	0	1	SGT	7252	7257
SMCR	0	2	CPL	5953	
	0	1	CPL	7252	7257
	0	2	GYSGT	7257	
	0	4	LCPL	5953	
	0	7	LCPL	7252	7257
	0	3	SGT	7257	
	0	1	SGT	7252	7257
ACTIVITY TOTAL:	0	25			
*** ATC Detachments West, XXXXX**					
USMC	0	8	CPL	5953	
	0	8	CPL	7252	7257
	0	8	CPL	7254	7257
	0	8	CPL	7257	
	0	4	GYSGT	5953	
	0	12	GYSGT	7257	
	0	16	LCPL	5953	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	28	LCPL	7252	7257
	0	44	LCPL	7253	7257
	0	4	LCPL	7257	
	0	12	SGT	7254	7257
	0	4	SGT	7257	
	0	4	SSGT	5953	
	0	16	SSGT	7257	
	0	4	SGT	5953	
	0	8	SGT	7252	7257
SMCR	0	1	SGT	7257	
ACTIVITY TOTAL:	0	189			
*** HQ, MCB Camp Butler, 01027**					
USMC	0	1	GYSGT	7257	
ACTIVITY TOTAL:	0	1			
MACS 1 HQ Yuma, 09541					
USMC	0	1	SGT	5953	
ACTIVITY TOTAL:	0	1			
MCAF Kaneohe Bay, HI, 02303					
USMC	0	5	LCPL	5953	
	0	1	SSGT	5953	
ACTIVITY TOTAL:	0	6			
MCAS Camp Pendleton, CA, 02208					
USMC	0	5	CPL	5953	
	0	3	CPL	7252	7257
	0	1	CPL	7257	7253
	0	1	GYSGT	5953	
	0	2	GYSGT	7257	
	0	1	LCPL	5953	
	0	6	LCPL	7252	7257
	0	1	LCPL	7257	7253
	0	5	SGT	7253	7257
	0	4	SSGT	7257	
	0	2	SGT	5953	
	0	2	SGT	7252	7257
	0	9	CPL	7253	7257
ACTIVITY TOTAL:	0	42			
MCAS Futenma, Japan, 02601					

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	2	CPL	5953	
	0	7	CPL	7252	7257
	0	1	CPL	7257	7253
	0	1	GYSGT	7257	
	0	1	LCPL	5953	
	0	6	LCPL	7252	7257
	0	8	LCPL	7253	7257
	0	1	SGT	7253	7257
	0	3	SGT	7257	
	0	1	SSGT	5953	
	0	4	SSGT	7252	7257
	0	3	SSGT	7257	
	0	1	SGT	5953	
	0	1	SGT	7252	7257
	0	7	CPL	7253	7257
ACTIVITY TOTAL:	0	47			
MCAS Iwakuni, Japan, 02501					
USMC	0	2	CPL	5953	
	0	4	CPL	7252	7257
	0	2	GYSGT	7257	
	0	1	LCPL	5953	
	0	5	LCPL	7253	7257
	0	2	SGT	7253	7257
	0	1	SSGT	5953	
	0	7	SSGT	7257	
	0	1	SGT	5953	
	0	2	SGT	7252	7257
	0	4	CPL	7253	7257
ACTIVITY TOTAL:	0	31			
MCAS Miramar, CA, 02201					
USMC	0	2	CPL	5953	
	0	17	CPL	7252	7257
	0	1	CPL	7257	7253
	0	2	GYSGT	7257	
	0	1	LCPL	5953	
	0	8	LCPL	7253	7257
	0	3	SGT	7253	7257
	0	1	SSGT	5953	
	0	8	SSGT	7257	
	0	2	SGT	5953	
	0	6	SGT	7252	7257
	0	1	CPL	7253	7257

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACTIVITY TOTAL:	0	52			
MCAS Yuma, AZ, 02230					
USMC	0	3	CPL	5953	
	0	3	CPL	7252	7257
	0	5	CPL	7254	7257
	0	1	CPL	7257	7253
	0	1	GYSGT	7257	
	0	4	LCPL	5953	
	0	8	LCPL	7252	7257
	0	18	LCPL	7253	7257
	0	7	SGT	7254	7257
	0	1	SSGT	5953	
	0	14	SSGT	7257	
	0	1	SGT	5953	
	0	4	SGT	7252	7257
ACTIVITY TOTAL:	0	70			

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY04 OFF	CFY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL
USN FLEET SUPPORT ACTIVITIES - ACDU													
ACCM	6901		3	0		0		0		0		0	
ACCM	6901 6902		1	0		0		0		0		0	
ACCS	6901		4	0		0		0		0		0	
ACCS	6901 6904		2	0		0		0		0		0	
ACC	6901		33	0		0		0		0		0	
ACC	6901 6902		2	0		0		0		0		0	
ACC	6901 6904		5	0		0		0		0		0	
ACC	6902 6901		1	0		0		0		0		0	
AC1	6901		180	0		0		0		0		0	
AC1	6901 6904		1	0		0		0		0		0	
AC1	6901 9527		1	0		0		0		0		0	
AC2	6901		204	0		0		0		0		0	
AC3	6901		2	0		0		0		0		0	
ETC	1517		0	0		1		0		0		1	
ETC	1517 1579		0	0		1		1		0		0	
ETC	1517 9502		0	0		0		0		2		0	
ETC	1574 1579		1	0		0		0		0		0	
ETC	1574 1580		1	0		0		0		0		0	
ETC	1574 9502		2	0		0		0		0		0	
ETC	1578		1	0		0		0		0		0	
ETC	1578 1580		1	0		0		0		0		0	
ETC	1579 1517		0	0		0		0		1		0	
ETC	1579 1580		1	0		0		0		0		0	
ETC	1580		1	0		0		0		0		0	
ETC	1580 1574		1	0		0		0		0		0	
ETC	1580 1579		1	0		0		0		0		0	
ET1	1471 1517		0	0		1		0		0		0	
ET1	1471 1574		1	0		0		0		0		0	
ET1	1480 1517		0	0		0		1		0		0	
ET1	1480 1578		2	0		0		0		0		0	
ET1	1517		0	0		7		3		2		0	
ET1	1517 1480		0	0		0		1		0		0	
ET1	1517 1570		0	0		0		0		1		0	
ET1	1517 9502		0	0		0		2		0		2	
ET1	1574		1	0		0		0		0		0	
ET1	1574 1480		1	0		0		0		0		0	
ET1	1574 9502		2	0		0		0		0		0	
ET1	1578		5	0		0		0		0		0	
ET1	1578 9502		2	0		0		0		0		0	
ET1	1579 1517		0	0		0		2		0		0	
ET1	1579 1574		2	0		0		0		0		0	
ET1	1579 1580		2	0		0		0		0		0	
ET1	1580		7	0		0		0		0		0	
ET1	1580 1570		1	0		0		0		0		0	
ET1	1580 1578		1	0		0		0		0		0	

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY04 OFF	CFY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL
ET1	1580 9502		2		0		0		0		0		0
ET2	1502 1517		0		0		2		0		0		0
ET2	1502 1574		2		0		0		0		0		0
ET2	1517		0		0		2		6		9		4
ET2	1517 1480		0		0		2		1		2		0
ET2	1517 1540		0		0		0		0		1		0
ET2	1517 9526		0		0		1		0		2		2
ET2	1517 9527		0		0		1		0		0		3
ET2	1570 1517		0		0		0		0		1		0
ET2	1570 1580		1		0		0		0		0		0
ET2	1574		1		0		0		0		0		0
ET2	1574 9527		4		0		0		0		0		0
ET2	1578		13		0		0		0		0		0
ET2	1578 9526		3		0		0		0		0		0
ET2	1578 9527		1		0		0		0		0		0
ET2	1579 1517		0		0		4		2		3		2
ET2	1579 1574		9		0		0		0		0		0
ET2	1579 1580		2		0		0		0		0		0
ET2	1580		7		0		0		0		0		0
ET2	1580 1480		6		0		0		0		0		0
ET2	1580 1540		1		0		0		0		0		0
ET2	1580 1574		1		0		0		0		0		0
ET2	1580 9526		3		0		0		0		0		0
ET2	1580 9527		1		0		0		0		0		0
ET3	1480 1517		0		0		0		1		0		0
ET3	1480 1580		1		0		0		0		0		0
ET3	1517		0		0		2		1		1		10
ET3	1517 1579		0		0		0		0		0		0
ET3	1517 9527		0		0		1		0		1		1
ET3	1574		1		0		0		0		0		0
ET3	1574 1580		1		0		0		0		0		0
ET3	1578		5		0		0		0		0		0
ET3	1579 1517		0		0		0		1		0		0
ET3	1579 1580		1		0		0		0		0		0
ET3	1580		6		0		0		0		0		0
ET3	1580 1574		1		0		0		0		0		0
ET3	1580 1579		1		0		0		0		0		0
ET3	1580 9527		2		0		0		0		0		0
USN FLEET SUPPORT ACTIVITIES - TAR													
ET1	1517		0		0		0		1		0		1
ET1	1574		1		0		0		0		0		0
ET1	1579 1517		0		0		0		0		0		2
ET1	1579 1574		1		0		0		0		0		0
ET1	1579 1580		1		0		0		0		0		0
ET1	1580		1		0		0		0		0		0
ET2	1579 1517		0		0		0		0		0		0
ET2	1579 1580		1		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS		PFYs OFF	PFYs ENL	CFY04 OFF	CFY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL
USN FLEET SUPPORT ACTIVITIES - SELRES														
ACC	6901			1	0		0		0		0		0	
AC1	6901			3	0		0		0		0		0	
AC2	6901			8	0		0		0		0		0	
AC3	6901			1	0		0		0		0		0	
ET1	1517			0	0		1		1		0		0	
ET1	1578			1	0		0		0		0		0	
ET1	1580			1	0		0		0		0		0	
ET2	1517			0	0		2		0		0		2	
ET2	1517	1579		0	0		0		0		1		0	
ET2	1517	9527		0	0		0		0		0		1	
ET2	1574	1579		1	0		0		0		0		0	
ET2	1578			1	0		0		0		0		0	
ET2	1578	9527		1	0		0		0		0		0	
ET2	1580			3	0		0		0		0		0	
USMC FLEET SUPPORT ACTIVITIES - USMC														
CPL	5953			42	0		0		0		0		0	
CPL	7252	7257		72	0		0		0		0		0	
CPL	7254	7257		21	0		0		0		0		0	
CPL	7257			18	0		0		0		0		0	
CPL	7257	7253		8	0		0		0		0		0	
GYSGT	5953			12	0		0		0		0		0	
GYSGT	7257			42	0		0		0		0		0	
GYSGT	9960	5953		1	0		0		0		0		0	
LCPL	5953			56	0		0		0		0		0	
LCPL	7252	7257		99	0		0		0		0		0	
LCPL	7253	7257		146	0		0		0		0		0	
LCPL	7257			8	0		0		0		0		0	
LCPL	7257	7253		1	0		0		0		0		0	
SGT	7253	7257		20	0		0		0		0		0	
SGT	7254	7257		36	0		0		0		0		0	
SGT	7257			11	0		0		0		0		0	
SSGT	5953			20	0		0		0		0		0	
SSGT	7252	7257		4	0		0		0		0		0	
SSGT	7257			99	0		0		0		0		0	
SGT	5953			31	0		0		0		0		0	
SGT	7252	7257		44	0		0		0		0		0	
CPL	7253	7257		33	0		0		0		0		0	
USMC FLEET SUPPORT ACTIVITIES - SMCR														
CPL	5953			6	0		0		0		0		0	
CPL	7252	7257		1	0		0		0		0		0	
GYSGT	7257			4	0		0		0		0		0	
LCPL	5953			6	0		0		0		0		0	
LCPL	7252	7257		7	0		0		0		0		0	
SGT	7257			4	0		0		0		0		0	

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY04 OFF	CFY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL
SGT	5953		1		0		0		0		0		0
SGT	7252 7257		1		0		0		0		0		0

SUMMARY TOTALS:

USN FLEET SUPPORT ACTIVITIES - ACDU											
	552		0		25		22		26		25
USN FLEET SUPPORT ACTIVITIES - TAR											
	5		0		0		1		0		3
USN FLEET SUPPORT ACTIVITIES - SELRES											
	21		0		3		1		1		3
USMC FLEET SUPPORT ACTIVITIES - USMC											
	824		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - SMCR											
	30		0		0		0		0		0

GRAND TOTALS:

USN - ACDU											
	552		0		25		22		26		25
USN - TAR											
	5		0		0		1		0		3
USN - SELRES											
	21		0		3		1		1		3
USMC - USMC											
	824		0		0		0		0		0
USMC - SMCR											
	30		0		0		0		0		0

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
FLEET SUPPORT ACTIVITIES - USN					
*** NAVCONS REG 1, 17171, FY08 Increment**					
ACDU	0	1	ET2	1574	9527
ACTIVITY TOTAL:	0	1			
NAS Brunswick, ME, 3193B, FY06 Increment					
ACDU	0	1	ET1	1480	1578
NAS Brunswick, ME, 3193B, FY07 Increment					
ACDU	0	1	ET1	1580	1578
NAS Brunswick, ME, 3193B, FY08 Increment					
ACDU	0	1	ET2	1580	1540
NAS Brunswick, ME, 3193B, FY09 Increment					
ACDU	0	1	ET2	1578	9526
ACTIVITY TOTAL:	0	4			
NAS Jacksonville, FL, 00207, FY05 Increment					
ACDU	0	1	ET1	1471	1574
	0	2	ET2	1579	1580
NAS Jacksonville, FL, 00207, FY06 Increment					
ACDU	0	1	ET1	1579	1580
NAS Jacksonville, FL, 00207, FY07 Increment					
ACDU	0	1	ETC	1579	1580
NAS Jacksonville, FL, 00207, FY08 Increment					
ACDU	0	1	ET2	1574	
	0	1	ET2	1574	9527
ACTIVITY TOTAL:	0	7			
NAS JRB Willow Grove, PA, 00158, FY05 Increment					
ACDU	0	1	ETC	1574	1579
NAS JRB Willow Grove, PA, 00158, FY06 Increment					
ACDU	0	1	ET1	1579	1574
NAS JRB Willow Grove, PA, 00158, FY07 Increment					
ACDU	0	1	ET2	1579	1574
NAS JRB Willow Grove, PA, 00158, FY08 Increment					
TAR	0	1	ET1	1579	1580

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
NAS JRB Willow Grove, PA, 00158, FY09 Increment					
TAR	0	1	ET2	1579	1580
ACTIVITY TOTAL:	0	5			
NAS Key West, FL, 00213, FY05 Increment					
ACDU	0	1	ET2	1578	
	0	2	ET3	1580	
SELRES	0	1	ET1	1578	
	0	2	ET2	1580	
NAS Key West, FL, 00213, FY06 Increment					
ACDU	0	1	ETC	1580	1579
	0	1	ET2	1578	
SELRES	0	1	ET1	1580	
NAS Key West, FL, 00213, FY07 Increment					
ACDU	0	2	ET2	1578	
	0	2	ET2	1580	
SELRES	0	1	ET2	1574	1579
NAS Key West, FL, 00213, FY08 Increment					
ACDU	0	1	ET3	1578	
SELRES	0	1	ET2	1578	
ACTIVITY TOTAL:	0	16			
NAS Oceana Air Det Norfolk, VA, 00188, FY05 Increment					
ACDU	0	1	ET2	1579	1574
NAS Oceana Air Det Norfolk, VA, 00188, FY06 Increment					
ACDU	0	1	ET2	1579	1574
NAS Oceana Air Det Norfolk, VA, 00188, FY07 Increment					
ACDU	0	1	ET2	1579	1574
NAS Oceana Air Det Norfolk, VA, 00188, FY08 Increment					
ACDU	0	1	ET2	1574	9527
	0	1	ET2	1579	1574
ACTIVITY TOTAL:	0	5			
NAS Oceana, VA, 60191, FY05 Increment					

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACDU	0	1	ET1	1578	
NAS Oceana, VA, 60191, FY06 Increment					
ACDU	0	1	ET2	1578	
	0	1	ET3	1580	
NAS Oceana, VA, 60191, FY07 Increment					
ACDU	0	2	ET2	1578	9526
NAS Oceana, VA, 60191, FY08 Increment					
ACDU	0	2	ET2	1580	9526
	0	2	ET3	1578	
NAS Oceana, VA, 60191, FY09 Increment					
ACDU	0	1	ET1	1480	1578
ACTIVITY TOTAL:	0	10			
NAS Patuxent River, MD, 47608, FY05 Increment					
ACDU	0	1	ET1	1578	
	0	1	ET1	1580	
NAS Patuxent River, MD, 47608, FY06 Increment					
ACDU	0	2	ET2	1578	
NAS Patuxent River, MD, 47608, FY08 Increment					
ACDU	0	1	ET2	1580	
	0	2	ET3	1578	
	0	1	ET3	1580	9527
NAS Patuxent River, MD, 47608, FY09 Increment					
ACDU	0	1	ET2	1578	9527
	0	1	ET2	1580	1480
ACTIVITY TOTAL:	0	10			
NATTC Pensacola, FL, 63093, FY06 Increment					
ACDU	0	2	ET1	1574	9502
NATTC Pensacola, FL, 63093, FY07 Increment					
ACDU	0	2	ETC	1574	9502
NATTC Pensacola, FL, 63093, FY08 Increment					
ACDU	0	2	ET1	1578	9502
NATTC Pensacola, FL, 63093, FY09 Increment					
ACDU	0	2	ET1	1580	9502

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACTIVITY TOTAL:	0	8			
NAVSTA Mayport, FL, 60201, FY05 Increment					
ACDU	0	1	ETC	1580	1574
	0	1	ET1	1574	
	0	2	ET2	1580	1480
NAVSTA Mayport, FL, 60201, FY06 Increment					
ACDU	0	1	ET1	1574	1480
	0	1	ET1	1580	
NAVSTA Mayport, FL, 60201, FY07 Increment					
ACDU	0	1	ET2	1580	1480
NAVSTA Mayport, FL, 60201, FY08 Increment					
ACDU	0	1	ET3	1574	
	0	2	ET3	1580	
ACTIVITY TOTAL:	0	10			
NAVSTA Rota, Spain, 62863, FY05 Increment					
ACDU	0	1	ET2	1580	9526
NAVSTA Rota, Spain, 62863, FY06 Increment					
ACDU	0	1	ET3	1579	1580
NAVSTA Rota, Spain, 62863, FY08 Increment					
ACDU	0	1	ET3	1580	
	0	1	ET3	1580	1574
NAVSTA Rota, Spain, 62863, FY09 Increment					
ACDU	0	1	ET1	1580	
	0	1	ET2	1574	9527
	0	1	ET2	1580	1574
ACTIVITY TOTAL:	0	7			
NAS Kingsville, TX - Undergrad Pilot Training,, 42095, FY07 Increment					
ACDU	0	2	ET1	1580	
	0	2	ET2	1578	
NAS Kingsville, TX - Undergrad Pilot Training,, 42095, FY08 Increment					
ACDU	0	2	ET2	1578	
NAS Kingsville, TX - Undergrad Pilot Training,, 42095, FY09 Increment					
ACDU	0	1	ETC	1578	

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACTIVITY TOTAL:	0	7			
NALF San Clemente, CA, 31466, FY05 Increment					
ACDU	0	2	ET2	1502	1574
NALF San Clemente, CA, 31466, FY06 Increment					
ACDU	0	1	ET3	1480	1580
NALF San Clemente, CA, 31466, FY07 Increment					
ACDU	0	1	ET3	1574	1580
	0	1	ET3	1580	9527
NALF San Clemente, CA, 31466, FY09 Increment					
ACDU	0	1	ET1	1579	1580
ACTIVITY TOTAL:	0	6			
NAS Corpus Christi, TX - Undergrad Pilot Training, 42094, FY05 Increment					
ACDU	0	1	ET2	1579	1574
NAS Corpus Christi, TX - Undergrad Pilot Training, 42094, FY06 Increment					
ACDU	0	1	ET2	1579	1574
NAS Corpus Christi, TX - Undergrad Pilot Training, 42094, FY07 Increment					
ACDU	0	1	ET2	1579	1574
NAS Corpus Christi, TX - Undergrad Pilot Training, 42094, FY08 Increment					
ACDU	0	1	ET2	1579	1574
NAS Corpus Christi, TX - Undergrad Pilot Training, 42094, FY09 Increment					
ACDU	0	1	ET1	1579	1574
ACTIVITY TOTAL:	0	5			
NAS JRB Fort Worth, TX, 83447, FY06 Increment					
TAR	0	1	ET1	1574	
NAS JRB Fort Worth, TX, 83447, FY07 Increment					
ACDU	0	1	ET1	1580	1570
NAS JRB Fort Worth, TX, 83447, FY08 Increment					
ACDU	0	1	ETC	1574	1580
TAR	0	1	ET1	1579	1574
	0	1	ET1	1580	
NAS JRB Fort Worth, TX, 83447, FY09 Increment					
ACDU	0	1	ET3	1580	1579

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACTIVITY TOTAL:	0	6			
NAS North Island, CA, 00246, FY05 Increment					
ACDU	0	1	ET2	1578	
NAS North Island, CA, 00246, FY06 Increment					
ACDU	0	1	ET2	1580	
NAS North Island, CA, 00246, FY07 Increment					
ACDU	0	2	ET2	1580	
NAS North Island, CA, 00246, FY09 Increment					
ACDU	0	1	ET1	1580	
ACTIVITY TOTAL:	0	5			
NAS Whidbey Island, WA, 00620, FY05 Increment					
ACDU	0	1	ET1	1578	
	0	1	ET2	1580	9527
NAS Whidbey Island, WA, 00620, FY06 Increment					
ACDU	0	1	ET2	1578	
NAS Whidbey Island, WA, 00620, FY07 Increment					
ACDU	0	1	ET2	1580	1480
NAS Whidbey Island, WA, 00620, FY09 Increment					
ACDU	0	1	ETC	1580	
ACTIVITY TOTAL:	0	5			
NAVBASE Ventura County, CA - Pt Mugu, 69232, FY05 Increment					
ACDU	0	2	ET1	1578	
NAVBASE Ventura County, CA - Pt Mugu, 69232, FY06 Increment					
ACDU	0	1	ET1	1580	
	0	1	ET2	1580	1480
NAVBASE Ventura County, CA - Pt Mugu, 69232, FY07 Increment					
ACDU	0	1	ET2	1570	1580
	0	1	ET2	1580	
NAVBASE Ventura County, CA - Pt Mugu, 69232, FY08 Increment					
SELRES	0	1	ET2	1578	9527
	0	1	ET2	1580	
NAVBASE Ventura County, CA - Pt Mugu, 69232, FY09 Increment					

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACDU	0	1	ETC	1578	1580
ACTIVITY TOTAL:	0	9			

II.A.2.c. TOTAL BILLETS TO BE DELETED IN OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS		PFYs OFF	PFYs ENL	CFY04 OFF	CFY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL
USN FLEET SUPPORT ACTIVITIES - ACDU														
ETC	1574	1579	0		0		-1		0		0		0	
ETC	1574	1580	0		0		0		0		0		-1	
ETC	1574	9502	0		0		0		0		-2		0	
ETC	1579	1580	0		0		0		0		-1		0	
ETC	1580	1574	0		0		-1		0		0		0	
ETC	1580	1579	0		0		0		-1		0		0	
ET1	1471	1574	0		0		-1		0		0		0	
ET1	1480	1578	0		0		0		-1		0		0	
ET1	1574		0		0		-1		0		0		0	
ET1	1574	1480	0		0		0		-1		0		0	
ET1	1574	9502	0		0		0		-2		0		0	
ET1	1578		0		0		-5		0		0		0	
ET1	1578	9502	0		0		0		0		0		-2	
ET1	1579	1574	0		0		0		-1		0		0	
ET1	1579	1580	0		0		0		-1		0		0	
ET1	1580		0		0		-1		-2		-2		0	
ET1	1580	1570	0		0		0		0		-1		0	
ET1	1580	1578	0		0		0		0		-1		0	
ET2	1502	1574	0		0		-2		0		0		0	
ET2	1570	1580	0		0		0		0		-1		0	
ET2	1574		0		0		0		0		0		-1	
ET2	1574	9527	0		0		0		0		0		-3	
ET2	1578		0		0		-2		-5		-4		-2	
ET2	1578	9526	0		0		0		0		-2		0	
ET2	1579	1574	0		0		-2		-2		-3		-2	
ET2	1579	1580	0		0		-2		0		0		0	
ET2	1580		0		0		0		-1		-5		-1	
ET2	1580	1480	0		0		-2		-1		-2		0	
ET2	1580	1540	0		0		0		0		0		-1	
ET2	1580	9526	0		0		-1		0		0		-2	
ET2	1580	9527	0		0		-1		0		0		0	
ET3	1480	1580	0		0		0		-1		0		0	
ET3	1574		0		0		0		0		0		-1	
ET3	1574	1580	0		0		0		0		-1		0	
ET3	1578		0		0		0		0		0		-5	
ET3	1579	1580	0		0		0		-1		0		0	
ET3	1580		0		0		-2		-1		0		-3	
ET3	1580	1574	0		0		0		0		0		-1	
ET3	1580	9527	0		0		0		0		-1		-1	
USN FLEET SUPPORT ACTIVITIES - TAR														
ET1	1574		0		0		0		-1		0		0	
ET1	1579	1574	0		0		0		0		0		-1	
ET1	1579	1580	0		0		0		0		0		-1	
ET1	1580		0		0		0		0		0		-1	

II.A.2.c. TOTAL BILLETS TO BE DELETED IN OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY04 OFF	CFY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL
USN FLEET SUPPORT ACTIVITIES - SELRES													
ET1	1578			0	0	-1		0		0		0	
ET1	1580			0	0	0		-1		0		0	
ET2	1574 1579			0	0	0		0		-1		0	
ET2	1578			0	0	0		0		0		-1	
ET2	1578 9527			0	0	0		0		0		-1	
ET2	1580			0	0	-2		0		0		-1	

SUMMARY TOTALS:

USN FLEET SUPPORT ACTIVITIES - ACDU													
				0	0	-24		-21		-26		-26	
USN FLEET SUPPORT ACTIVITIES - TAR													
				0	0	0		-1		0		-3	
USN FLEET SUPPORT ACTIVITIES - SELRES													
				0	0	-3		-1		-1		-3	

GRAND TOTALS:

USN - ACDU													
				0	0	-24		-21		-26		-26	
USN - TAR													
				0	0	0		-1		0		-3	
USN - SELRES													
				0	0	-3		-1		-1		-3	

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY04 OFF	CFY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL
TRAINING ACTIVITY, LOCATION, UIC: NATTC Pensacola, Pensacola, Florida, 63093													
INSTRUCTOR BILLETS													
OTHER													
XXXX		15	0	15	0	15	0	15	0	15	0	15	0
SUPPORT BILLETS													
USN													
AC1	6901	0	1	0	1	0	1	0	1	0	1	0	1
ET1	1517	0	0	0	0	0	1	0	2	0	3	0	3
ET1	1574	0	2	0	2	0	1	0	1	0	1	0	1
ET1	1578	0	2	0	2	0	2	0	1	0	1	0	1
ET1	1580	0	2	0	2	0	2	0	2	0	1	0	1
TOTAL:		15	7	15	7	15	7	15	7	15	7	15	7

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs OFF	PFYs ENL	CFY04 OFF	CFY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL
NATTC Pensacola, Pensacola, Florida, 63093													
	USN	0.0	16.1	0.0	15.9	0.0	22.9	0.0	23.4	0.0	25.1	0.0	24.6
	USMC	0.0	3.8	0.0	3.8	0.0	8.9	0.0	8.9	0.0	8.9	0.0	8.9
SUMMARY TOTALS:													
	USN	0.0	16.1	0.0	15.9	0.0	22.9	0.0	23.4	0.0	25.1	0.0	24.6
	USMC	0.0	3.8	0.0	3.8	0.0	8.9	0.0	8.9	0.0	8.9	0.0	8.9
GRAND TOTALS:													
		0.0	19.9	0.0	19.7	0.0	31.8	0.0	32.3	0.0	34.0	0.0	33.5

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY04 +/-	CFY04 CUM	FY05 +/-	FY05 CUM	FY06 +/-	FY06 CUM	FY07 +/-	FY07 CUM	FY08 +/-	FY08 CUM
a. OFFICER - USN			Not Applicable										
b. ENLISTED - USN													
Fleet Support Billets ACDU and TAR													
ACCM	6901		3	0	3	0	3	0	3	0	3	0	3
ACCM	6901	6902	1	0	1	0	1	0	1	0	1	0	1
ACCS	6901		4	0	4	0	4	0	4	0	4	0	4
ACCS	6901	6904	2	0	2	0	2	0	2	0	2	0	2
ACC	6901		33	0	33	0	33	0	33	0	33	0	33
ACC	6901	6902	2	0	2	0	2	0	2	0	2	0	2
ACC	6901	6904	5	0	5	0	5	0	5	0	5	0	5
ACC	6902	6901	1	0	1	0	1	0	1	0	1	0	1
AC1	6901		180	0	180	0	180	0	180	0	180	0	180
AC1	6901	6904	1	0	1	0	1	0	1	0	1	0	1
AC1	6901	9527	1	0	1	0	1	0	1	0	1	0	1
AC2	6901		204	0	204	0	204	0	204	0	204	0	204
AC3	6901		2	0	2	0	2	0	2	0	2	0	2
ETC	1517		0	0	0	1	1	0	1	0	1	1	2
ETC	1517	1579	0	0	0	1	1	1	2	0	2	0	2
ETC	1517	9502	0	0	0	0	0	0	0	2	2	0	2
ETC	1574	1579	1	0	1	-1	0	0	0	0	0	0	0
ETC	1574	1580	1	0	1	0	1	0	1	0	1	-1	0
ETC	1574	9502	2	0	2	0	2	0	2	-2	0	0	0
ETC	1578		1	0	1	0	1	0	1	0	1	0	1
ETC	1578	1580	1	0	1	0	1	0	1	0	1	0	1
ETC	1579	1517	0	0	0	0	0	0	0	1	1	0	1
ETC	1579	1580	1	0	1	0	1	0	1	-1	0	0	0
ETC	1580		1	0	1	0	1	0	1	0	1	0	1
ETC	1580	1574	1	0	1	-1	0	0	0	0	0	0	0
ETC	1580	1579	1	0	1	0	1	-1	0	0	0	0	0
ET1	1471	1517	0	0	0	1	1	0	1	0	1	0	1
ET1	1471	1574	1	0	1	-1	0	0	0	0	0	0	0
ET1	1480	1517	0	0	0	0	0	1	1	0	1	0	1
ET1	1480	1578	2	0	2	0	2	-1	1	0	1	0	1
ET1	1517		0	0	0	7	7	4	11	2	13	1	14
ET1	1517	1480	0	0	0	0	0	1	1	0	1	0	1
ET1	1517	1570	0	0	0	0	0	0	0	1	1	0	1
ET1	1517	9502	0	0	0	0	0	2	2	0	2	2	4
ET1	1574		2	0	2	-1	1	-1	0	0	0	0	0
ET1	1574	1480	1	0	1	0	1	-1	0	0	0	0	0
ET1	1574	9502	2	0	2	0	2	-2	0	0	0	0	0
ET1	1578		5	0	5	-5	0	0	0	0	0	0	0
ET1	1578	9502	2	0	2	0	2	0	2	0	2	-2	0
ET1	1579	1517	0	0	0	0	0	2	2	0	2	2	4

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY04 +/-	CFY04 CUM	FY05 +/-	FY05 CUM	FY06 +/-	FY06 CUM	FY07 +/-	FY07 CUM	FY08 +/-	FY08 CUM
ET1	1579	1574	3	0	3	0	3	-1	2	0	2	-1	1
ET1	1579	1580	3	0	3	0	3	-1	2	0	2	-1	1
ET1	1580		8	0	8	-1	7	-2	5	-2	3	-1	2
ET1	1580	1570	1	0	1	0	1	0	1	-1	0	0	0
ET1	1580	1578	1	0	1	0	1	0	1	-1	0	0	0
ET1	1580	9502	2	0	2	0	2	0	2	0	2	0	2
ET2	1502	1517	0	0	0	2	2	0	2	0	2	0	2
ET2	1502	1574	2	0	2	-2	0	0	0	0	0	0	0
ET2	1517		0	0	0	2	2	6	8	9	17	4	21
ET2	1517	1480	0	0	0	2	2	1	3	2	5	0	5
ET2	1517	1540	0	0	0	0	0	0	0	1	1	0	1
ET2	1517	9526	0	0	0	1	1	0	1	2	3	2	5
ET2	1517	9527	0	0	0	1	1	0	1	0	1	3	4
ET2	1570	1517	0	0	0	0	0	0	0	1	1	0	1
ET2	1570	1580	1	0	1	0	1	0	1	-1	0	0	0
ET2	1574		1	0	1	0	1	0	1	0	1	-1	0
ET2	1574	9527	4	0	4	0	4	0	4	0	4	-3	1
ET2	1578		13	0	13	-2	11	-5	6	-4	2	-2	0
ET2	1578	9526	3	0	3	0	3	0	3	-2	1	0	1
ET2	1578	9527	1	0	1	0	1	0	1	0	1	0	1
ET2	1579	1517	0	0	0	4	4	2	6	3	9	2	11
ET2	1579	1574	9	0	9	-2	7	-2	5	-3	2	-2	0
ET2	1579	1580	3	0	3	-2	1	0	1	0	1	0	1
ET2	1580		7	0	7	0	7	-1	6	-5	1	-1	0
ET2	1580	1480	6	0	6	-2	4	-1	3	-2	1	0	1
ET2	1580	1540	1	0	1	0	1	0	1	0	1	-1	0
ET2	1580	1574	1	0	1	0	1	0	1	0	1	0	1
ET2	1580	9526	3	0	3	-1	2	0	2	0	2	-2	0
ET2	1580	9527	1	0	1	-1	0	0	0	0	0	0	0
ET3	1480	1517	0	0	0	0	0	1	1	0	1	0	1
ET3	1480	1580	1	0	1	0	1	-1	0	0	0	0	0
ET3	1517		0	0	0	2	2	1	3	1	4	10	14
ET3	1517	1579	0	0	0	0	0	0	0	0	0	0	0
ET3	1517	9527	0	0	0	1	1	0	1	1	2	1	3
ET3	1574		1	0	1	0	1	0	1	0	1	-1	0
ET3	1574	1580	1	0	1	0	1	0	1	-1	0	0	0
ET3	1578		5	0	5	0	5	0	5	0	5	-5	0
ET3	1579	1517	0	0	0	0	0	1	1	0	1	0	1
ET3	1579	1580	1	0	1	0	1	-1	0	0	0	0	0
ET3	1580		6	0	6	-2	4	-1	3	0	3	-3	0
ET3	1580	1574	1	0	1	0	1	0	1	0	1	-1	0
ET3	1580	1579	1	0	1	0	1	0	1	0	1	0	1
ET3	1580	9527	2	0	2	0	2	0	2	-1	1	-1	0
Staff Billets ACDU and TAR													
AC1	6901		1	0	1	0	1	0	1	0	1	0	1
ET1	1517		0	0	0	1	1	1	2	1	3	0	3
ET1	1574		2	0	2	-1	1	0	1	0	1	0	1

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY04 +/-	CFY04 CUM	FY05 +/-	FY05 CUM	FY06 +/-	FY06 CUM	FY07 +/-	FY07 CUM	FY08 +/-	FY08 CUM
ET1	1578		2	0	2	0	2	-1	1	0	1	0	1
ET1	1580		2	0	2	0	2	0	2	-1	1	0	1
Chargeable Student Billets ACDU and TAR													
			17	-1	16	7	23	1	24	2	26	-1	25
SELRES Billets													
ACC	6901		1	0	1	0	1	0	1	0	1	0	1
AC1	6901		3	0	3	0	3	0	3	0	3	0	3
AC2	6901		8	0	8	0	8	0	8	0	8	0	8
AC3	6901		1	0	1	0	1	0	1	0	1	0	1
ET1	1517		0	0	0	1	1	1	2	0	2	0	2
ET1	1578		1	0	1	-1	0	0	0	0	0	0	0
ET1	1580		1	0	1	0	1	-1	0	0	0	0	0
ET2	1517		0	0	0	2	2	0	2	0	2	2	4
ET2	1517	1579	0	0	0	0	0	0	0	1	1	0	1
ET2	1517	9527	0	0	0	0	0	0	0	0	0	1	1
ET2	1574	1579	1	0	1	0	1	0	1	-1	0	0	0
ET2	1578		1	0	1	0	1	0	1	0	1	-1	0
ET2	1578	9527	1	0	1	0	1	0	1	0	1	-1	0
ET2	1580		3	0	3	-2	1	0	1	0	1	-1	0
TOTAL USN ENLISTED BILLETS:													
Fleet Support			557	0	557	1	558	1	559	0	559	-1	558
Staff			7	0	7	0	7	0	7	0	7	0	7
Chargeable Student			17	-1	16	7	23	1	24	2	26	-1	25
SELRES			21	0	21	0	21	0	21	0	21	0	21

c. OFFICER - USMC Not Applicable

d. ENLISTED - USMC

Fleet Support Billets USMC and AR													
CPL	5953		42	0	42	0	42	0	42	0	42	0	42
CPL	7252	7257	72	0	72	0	72	0	72	0	72	0	72
CPL	7254	7257	21	0	21	0	21	0	21	0	21	0	21
CPL	7257		18	0	18	0	18	0	18	0	18	0	18

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY04 +/-	CFY04 CUM	FY05 +/-	FY05 CUM	FY06 +/-	FY06 CUM	FY07 +/-	FY07 CUM	FY08 +/-	FY08 CUM
CPL	7257	7253	8	0	8	0	8	0	8	0	8	0	8
GYSGT	5953		12	0	12	0	12	0	12	0	12	0	12
GYSGT	7257		42	0	42	0	42	0	42	0	42	0	42
GYSGT	9960	5953	1	0	1	0	1	0	1	0	1	0	1
LCPL	5953		56	0	56	0	56	0	56	0	56	0	56
LCPL	7252	7257	99	0	99	0	99	0	99	0	99	0	99
LCPL	7253	7257	146	0	146	0	146	0	146	0	146	0	146
LCPL	7257		8	0	8	0	8	0	8	0	8	0	8
LCPL	7257	7253	1	0	1	0	1	0	1	0	1	0	1
SGT	7253	7257	20	0	20	0	20	0	20	0	20	0	20
SGT	7254	7257	36	0	36	0	36	0	36	0	36	0	36
SGT	7257		11	0	11	0	11	0	11	0	11	0	11
SSGT	5953		20	0	20	0	20	0	20	0	20	0	20
SSGT	7252	7257	4	0	4	0	4	0	4	0	4	0	4
SSGT	7257		99	0	99	0	99	0	99	0	99	0	99
SGT	5953		31	0	31	0	31	0	31	0	31	0	31
SGT	7252	7257	44	0	44	0	44	0	44	0	44	0	44
CPL	7253	7257	33	0	33	0	33	0	33	0	33	0	33
Chargeable Student Billets USMC and AR			4	0	4	5	9	0	9	0	9	0	9
SMCR Billets													
CPL	5953		6	0	6	0	6	0	6	0	6	0	6
CPL	7252	7257	1	0	1	0	1	0	1	0	1	0	1
GYSGT	7257		4	0	4	0	4	0	4	0	4	0	4
LCPL	5953		6	0	6	0	6	0	6	0	6	0	6
LCPL	7252	7257	7	0	7	0	7	0	7	0	7	0	7
SGT	7257		4	0	4	0	4	0	4	0	4	0	4
SGT	5953		1	0	1	0	1	0	1	0	1	0	1
SGT	7252	7257	1	0	1	0	1	0	1	0	1	0	1
TOTAL USMC ENLISTED BILLETS:													
Fleet Support			824	0	824	0	824	0	824	0	824	0	824
Chargeable Student			4	0	4	5	9	0	9	0	9	0	9
SMCR			30	0	30	0	30	0	30	0	30	0	30

II.B. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: C-103-2051, AN/TPX-42(V) 10 RATCF DAIR Maintenance Technician Pipeline
COURSE LENGTH: 14.0 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% USMC: 0% **BACKOUT FACTOR:** 0.28

TRAINING	ACDU/TAR	CFY04	FY05	FY06	FY07	FY08

ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NATTC Pensacola, Pensacola, Florida												
	USN	ACDU		10		10		8		6		3
		SELRES		0		0		0		0		0
		TOTAL:		10		10		8		6		3

CIN, COURSE TITLE: C-103-2053, AN/TPX-42(V)5 DAIR Maintenance Technician Pipeline
COURSE LENGTH: 12.2 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% USMC: 0% **BACKOUT FACTOR:** 0.24

TRAINING		ACDU/TAR	CFY04		FY05		FY06		FY07		FY08	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NATTC Pensacola, Pensacola, Florida												
	USN	ACDU		10		9		7		6		3
		TAR		0		1		0		0		0
		SELRES		0		0		0		0		0
		TOTAL:		10		10		7		6		3

CIN, COURSE TITLE: C-103-2060, AN/GPN-27 Radar Maintenance Technician Pipeline
COURSE LENGTH: 11.0 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% USMC: 0% **BACKOUT FACTOR:** 0.22

TRAINING		ACDU/TAR	CFY04		FY05		FY06		FY07		FY08	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NATTC Pensacola, Pensacola, Florida												
	USN	ACDU		16		15		12		9		5
		TAR		1		1		1		0		0
		SELRES		0		0		1		0		0
	USMC	USMC		17		17		17		17		17
		SMCR		0		1		0		0		0
		TOTAL:		34		34		31		26		22

CIN, COURSE TITLE: C-222-2022, Advanced Radar Air Traffic Control
COURSE LENGTH: 4.0 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% USMC: 0% **BACKOUT FACTOR:** 0.08

TRAINING		ACDU/TAR	CFY04		FY05		FY06		FY07		FY08	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NATTC Pensacola, Pensacola, Florida												
	USN	ACDU		117		117		117		117		117
		SELRES		1		1		1		1		1
	USMC	USMC		4		4		4		4		4
		SMCR		0		0		0		1		0
		TOTAL:		122		122		122		123		122

II.B. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: C-103-2069, DASR/STARS Maintenance Training Pipeline
COURSE LENGTH: 16.0 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% USMC: 0% **BACKOUT FACTOR:** 0.32

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY04 OFF	CFY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL
NATTC Pensacola, Pensacola, Florida												
	USN	ACDU		0		25		32		43		48
		TAR		0		0		1		1		2
		SELRES		0		0		0		1		1
	USMC	USMC		0		17		17		17		17
		SMCR		0		0		0		0		0
		TOTAL:		0		42		50		62		68

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the NAS Mod and, therefore, are not included in Part III of this NTSP:

III.A.2. Follow-on Training

III.A.2.c. Unique Courses

III.A.3. Existing Training Phased Out

PART III - TRAINING REQUIREMENTS

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: DASR Instructor Training
COURSE DEVELOPER: Raytheon Corporation
COURSE INSTRUCTOR: Raytheon Corporation
COURSE LENGTH: 40 Days (estimated)
ACTIVITY DESTINATIONS: NATTC Pensacola

LOCATION, UIC	BEGIN DATE	STUDENTS OFF	STUDENTS ENL	STUDENTS CIV	
NATTC Pensacola, 63093	Jan 2002 (Complete)			2	Input AOB Chargeable

COURSE TITLE: STARS Instructor Training
COURSE DEVELOPER: Federal Aviation Administration (FAA)
COURSE INSTRUCTOR: FAA
COURSE LENGTH: 40 Days (estimated)
ACTIVITY DESTINATIONS: NATTC Pensacola

LOCATION, UIC	BEGIN DATE	STUDENTS OFF	STUDENTS ENL	STUDENTS CIV	
NATTC Pensacola, 63093	Oct 2003 (Complete)			2	Input AOB Chargeable

COURSE TITLE: VIDS Instructor Training
COURSE DEVELOPER: SPARWARSYSCEN Charleston
COURSE INSTRUCTOR: SPARWARSYSCEN Charleston
COURSE LENGTH: 5 Days (estimated)
ACTIVITY DESTINATIONS: NATTC Pensacola

LOCATION, UIC	BEGIN DATE	STUDENTS OFF	STUDENTS ENL	STUDENTS CIV	
NATTC Pensacola, 63093	Aug 2004			2	Input AOB Chargeable

III.A.2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: C-103-2051, AN/TPX-42(V) 10 RATCF DAIR Maintenance Technician Pipeline
TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC: Pensacola, Florida, 63093

SOURCE: USN **STUDENT CATEGORY:** ACDU - TAR

CFY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
10		10		8		6		3		ATIR
9		9		7		5		3		Output
2.5		2.5		2.0		1.5		0.7		AOB
2.5		2.5		2.0		1.5		0.7		Chargeable

SOURCE: USN **STUDENT CATEGORY:** SELRES

CFY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		0		0		0		0		ATIR
0		0		0		0		0		Output
0.0		0.0		0.0		0.0		0.0		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

CIN, COURSE TITLE: C-103-2053, AN/TPX-42(V)5 DAIR Maintenance Technician Pipeline
TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC: Pensacola, Florida, 63093

SOURCE: USN **STUDENT CATEGORY:** ACDU - TAR

CFY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
10		10		7		6		3		ATIR
9		9		6		5		3		Output
2.2		2.2		1.5		1.3		0.7		AOB
2.2		2.2		1.5		1.3		0.7		Chargeable

SOURCE: USN **STUDENT CATEGORY:** SELRES

CFY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		0		0		0		0		ATIR
0		0		0		0		0		Output
0.0		0.0		0.0		0.0		0.0		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: C-103-2060, AN/GPN-27 Radar Maintenance Technician Pipeline
TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC: Pensacola, Florida, 63093

SOURCE: USN **STUDENT CATEGORY:** ACDU - TAR

CFY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
17		16		13		9		5		ATIR
15		14		12		8		5		Output
3.3		3.1		2.5		1.8		1.0		AOB
3.3		3.1		2.5		1.8		1.0		Chargeable

SOURCE: USN **STUDENT CATEGORY:** SELRES

CFY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		0		1		0		0		ATIR
0		0		1		0		0		Output
0.0		0.0		0.2		0.0		0.0		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
17		17		17		17		17		ATIR
17		17		17		17		17		Output
3.5		3.5		3.5		3.5		3.5		AOB
3.5		3.5		3.5		3.5		3.5		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		1		0		0		0		ATIR
0		1		0		0		0		Output
0.0		0.2		0.0		0.0		0.0		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: C-222-2022, Advanced Radar Air Traffic Control
TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC: Pensacola, Florida, 63093

SOURCE: USN **STUDENT CATEGORY:** ACDU - TAR

CFY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
117		117		117		117		117		ATIR
105		105		105		105		105		Output
7.9		7.9		7.9		7.9		7.9		AOB
7.9		7.9		7.9		7.9		7.9		Chargeable

SOURCE: USN **STUDENT CATEGORY:** SELRES

CFY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
1		1		1		1		1		ATIR
1		1		1		1		1		Output
0.1		0.1		0.1		0.1		0.1		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
4		4		4		4		4		ATIR
4		4		4		4		4		Output
0.3		0.3		0.3		0.3		0.3		AOB
0.3		0.3		0.3		0.3		0.3		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		0		0		1		0		ATIR
0		0		0		1		0		Output
0.0		0.0		0.0		0.1		0.0		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

III.A.2.b. PLANNED COURSES

CIN, COURSE TITLE: C-103-2069, DASR/STARS Maintenance Training Pipeline
TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC: Pensacola, Florida, 63093

SOURCE: USN **STUDENT CATEGORY:** ACDU - TAR

CFY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		25		33		44		50		ATIR
0		23		30		40		45		Output
0.0		7.2		9.5		12.6		14.3		AOB
0.0		7.2		9.5		12.6		14.3		Chargeable

SOURCE: USN **STUDENT CATEGORY:** SELRES

CFY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		0		0		1		1		ATIR
0		0		0		1		1		Output
0.0		0.0		0.0		0.3		0.3		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		17		17		17		17		ATIR
0		17		17		17		17		Output
0.0		5.1		5.1		5.1		5.1		AOB
0.0		5.1		5.1		5.1		5.1		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		0		0		0		0		ATIR
0		0		0		0		0		Output
0.0		0.0		0.0		0.0		0.0		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the NAS Mod and, therefore, are not included in Part IV of this NTSP:

IV.C. Facility Requirements

IV.C.1. Facility Requirements Summary (Space/Support) by Activity

IV.C.2. Facility Requirements Detailed by Activity and Course

IV.C.3. Facility Project Summary by Program

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

IV.A. TRAINING HARDWARE

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-103-2035, AN/TPX-42(V)10 RATCF DAIR Maintenance Course (Track C-103-2051)
TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC: Pensacola, Florida, 63093

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
001	AN/TPX-42A(V)10 RATCF DAIR Radar System	1	Oct 2003	GFE	Onboard
GPETE					
701	Oscilloscope	2	Mar	GFE	Onboard
702	Digital Multimeter	2	Nov	GFE	Onboard
703	Universal Power Meter	2	Nov	GFE	Onboard
704	Universal Power Meter/Power Sensor	2	Nov	GFE	Onboard
705	20db, 50w Attenuator	2	Nov	GFE	Onboard
706	10db, 10w Attenuator	2	Nov	GFE	Onboard
707	Radiation Meter	2	Nov	GFE	Onboard
708	Radiation Monitor Probe	2	Nov	GFE	Onboard
709	Spectrum Analyzer	2	Nov	GFE	Onboard
710	Monopulse Beacon Test Set	2	Nov	GFE	Onboard
711	Gateway Model Solo 5300	2	Nov	GFE	Onboard
712	40db Attenuator	2	Nov	GFE	Onboard
713	DC-4Ghz Attenuator	2	Nov	GFE	Onboard
714	DC-80htz Attenuator	2	Nov	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-103-2028, AN/TPX-42(V)5 DAIR Maintenance Course (Track C-103-2053)
TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC: Pensacola, Florida, 63093

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
002	AN/TPX-42A(V)5 DAIR System	1	Oct 1996	GFE	Onboard
GPETE					
701	Oscilloscope	2	Nov	GFE	Onboard
702	Digital Multimeter	2	Nov	GFE	Onboard
704	Universal Power Meter/Power Sensor	2	Nov	GFE	Onboard
705	20db, 50w Attenuator	2	Nov	GFE	Onboard
706	10db, 10w Attenuator	2	Nov	GFE	Onboard
707	Radiation Meter	2	Nov	GFE	Onboard
708	Radiation Monitor Probe	2	Nov	GFE	Onboard
709	Spectrum Analyzer	2	Nov	GFE	Onboard
710	Monopulse Beacon Test Set	2	Nov	GFE	Onboard
711	Gateway Model Solo 5300	2	Nov	GFE	Onboard
712	40db Attenuator	2	Nov	GFE	Onboard
713	DC-4Ghz Attenuator	2	Nov	GFE	Onboard
714	DC-80htz Attenuator	2	Nov	GFE	Onboard

CIN, COURSE TITLE: C-103-2036, AN/GPN-27 Maintenance Course (Track C-103-2060)
TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC: Pensacola, Florida, 63093

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
003	AN/GPN-27 System	1	Nov	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

ST					
900	AT&T CSL Light Splicer	2	Nov	GFE	Onboard
901	AT7T Rotary Mechanical Splicer	2	Nov	GFE	Onboard
910	Maintenance Cart	2	Nov	GFE	Onboard
GPETE					
700	Radiometer	2	Nov	GFE	Onboard
701	Oscilloscope	2	Nov	GFE	Onboard
702	Digital Multimeter	2	Nov	GFE	Onboard
704	Universal Power Meter/Power Sensor	2	Nov	GFE	Onboard
705	20db, 50w Attenuator	2	Nov	GFE	Onboard
709	Spectrum Analyzer	2	Nov	GFE	Onboard
710	Monopulse Beacon Test Set	2	Nov	GFE	Onboard
715	Signal Generator	2	Nov	GFE	Onboard
SPETE					
500	Transmission Impairment Measuring Set	2	Nov	GFE	Onboard

CIN, COURSE TITLE: C-103-2018, AN/GPN-30 DASR Maintenance (Track C-103-2069)
TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC: Pensacola, Florida, 63093

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
004	AN/GPN-30 DASR System (1 of 2)	1	May	GFE	Onboard
005	AN/GPN-30 DASR System (2 of 2)	1	Oct 2010	GFE	Pending
GPETE					
701	Oscilloscope	2	Oct 2004	GFE	Pending
702	Digital Multimeter	2	Oct 2004	GFE	Pending
703	Universal Power Meter	2	Oct 2004	GFE	Pending
704	Universal Power Meter/Power Sensor	2	Oct 2004	GFE	Pending
705	20db, 50w Attenuator	2	Oct 2004	GFE	Pending

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

706	10db, 10w Attenuator	2	Oct 2004	GFE	Pending
707	Radiation Meter	2	Oct 2004	GFE	Pending
708	Radiation Monitor Probe	2	Oct 2004	GFE	Pending
709	Spectrum Analyzer	2	Oct 2004	GFE	Pending
710	Monopulse Beacon Test Set	2	Oct 2004	GFE	Pending
711	Gateway Model Solo 5300	2	Oct 2004	GFE	Pending
712	40db Attenuator	2	Oct 2004	GFE	Pending
713	DC-4Ghz Attenuator	2	Oct 2004	GFE	Pending
714	DC-80htz Attenuator	2	Oct 2004	GFE	Pending
SPETE					
501	VT200 Compatible Terminal Eliminator	2	Oct 2004	GFE	Pending
502	174376 PSR Antenna Test Kit	2	Oct 2004	GFE	Pending

CIN, COURSE TITLE: C-103-2025, AN/FSQ-204 STARS Maintenance (Track C-103-2069)
TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC: Pensacola, Florida, 63093

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
006	AN/FSQ-204 STARS (1 of 2)	1	Apr 2003	GFE	Onboard
007	AN/FSQ-204 STARS (2 of 2)	1	Oct 2006	GFE	Pending
008	AN/FYC-22 VIDS (Build 2, 1 of 2)	1	Aug	GFE	Onboard
009	AN/FYC-22 VIDS (Build 2, 2 of 2)	1	Oct 2006	GFE	Pending
ST					
902	Peak 2008 Stand Microscope	4	Oct 2004	GFE	Pending
903	Klein CM7AG Convergence Gauge	4	Oct 2004	GFE	Pending
904	Anode Cap Remover	4	Oct 2004	GFE	Pending
905	Flex Cable Tweezers	4	Oct 2004	GFE	Pending
906	Model ED12SD Overhead Winch	2	Oct 2004	GFE	Pending

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

907	Model DK2-250 Overhead Winch	2	Oct 2004	GFE	Pending
908	DDM Lifting Jig	2	Oct 2004	GFE	Pending
909	CRT Lifting Jig	2	Oct 2004	GFE	Pending
910	Maintenance Cart	4	Oct 2004	GFE	Pending
911	RM-10 Remote Control	4	Oct 2004	GFE	Pending
912	LS-10 Landing Sensor	4	Oct 2004	GFE	Pending
913	AS-10 Alignment Software	4	Oct 2004	GFE	Pending
GPETE					
701	Oscilloscope	4	Oct 2004	GFE	Pending
702	Digital Multimeter	4	Oct 2004	GFE	Pending
710	Monopulse Beacon Test Set	2	Apr 2003	GFE	Pending
715	Signal Generator	4	Oct 2004	GFE	Pending
716	Fluke IT10-100 Optic Cabling LAN Analyzer	4	Oct 2004	GFE	Pending
717	Minolta CA-100 Color Analyzer	4	Oct 2004	GFE	Pending
718	Fluke Fiber Test Kit	4	Oct 2004	GFE	Pending
SPETE					
500	Transmission Impairment Measuring Set	2	Apr 2003	GFE	Pending
503	Sony DDM-BC02 Ball Chart	4	Oct 2004	GFE	Pending

IV.A.2. TRAINING DEVICES

DEVICE: Radar ATC Facility
DESCRIPTION: The 15G31 Shore Based Air Traffic Control Trainer is comprised four radar sites that include simulated radars, student consoles, monitors, and communications equipment; an instructor's console and a host computer. Each radar site consists of two 23-inch surveillance radar display consoles, one PAR console, an automated voice recognition and synthesizer sub-assembly to enable direct student interaction with simulated pilots, and four OJ-314 communication panels that are networked to provide two-way voice communications with the instructor. An instructor operation station provides for lesson scenario selection, lesson review, and student monitoring. The TD provides for simulated ATC surveillance over an area of 512 square miles and altitudes between zero and 50,000 feet with weather, wind, and land mass variations selectable at each trainee radar site. This TD provides advanced training to Navy and Marine Corps Air Traffic Controllers for arrival, approach, and precision radar final approach.
MANUFACTURER: LOGICON Inc. San Diego, California
CONTRACT NUMBER: N61339-86-C-0108
TEE STATUS: Current

TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC : Pensacola, Florida, 63093

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jul 1987	Sep	Onboard	C-222-2022

IV.B. COURSEWARE REQUIREMENTS

IV.B.1. TRAINING SERVICES

COURSE / TYPE OF TRAINING	SCHOOL LOCATION, UIC	NO. OF PERSONNEL	MAN WEEKS REQUIRED	DATE BEGIN
DASR Instructor Training	NATTC Pensacola, 63093	2	6	Jan 2002
STARS Instructor Training	NATTC Pensacola, 63093	2	6	Oct 2003
VIDS (Build 2) Instructor Training	NATTC Pensacola, 63093	2	1	Aug 2004

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-103-2035, AN/TPX-42(V)10 RATCF DAIR Maintenance Course (Track C-103-2051)
TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC: Pensacola, Florida, 63093

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Administrators Guide	1	Oct 2003	Onboard
AN/TPX-42(V)10 Schematic Package	7	Oct 2003	Onboard
AN/TPX-42(V)10 Wallchart Package	1	Oct 2003	Onboard
Lesson Plan	4	Oct 2003	Onboard
Student Guide	7	Oct 2003	Onboard

CIN, COURSE TITLE: C-103-2028, AN/TPX-42(V)5 DAIR Maintenance Course (Track C-103-2053)
TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC: Pensacola, Florida, 63093

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
AN/TPX-42A(V)5 Circuit Diagram Package	17	Oct 1996	Onboard
AN/TPX-42A(V)5 Wallchart Package	1	Oct 1996	Onboard
Lesson Plan	2	Oct 1996	Onboard
Student Guide	17	Oct 1996	Onboard

CIN, COURSE TITLE: C-103-2036, AN/GPN-27 Maintenance Course (Track C-103-2060)
TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC: Pensacola, Florida, 63093

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Administrators Guide	1	Nov	Onboard
AN/GPN-27 Radar Figures and Diagram Package	8	Nov	Onboard
AN/GPN-27 Radar Wallchart and Transperency Package	2	Nov	Onboard
Lesson Plan	1	Nov	Onboard
Student Guide	8	Nov	Onboard

CIN, COURSE TITLE: C-222-2022, Advanced Radar Air Traffic Control
TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC: Pensacola, Florida, 63093

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Facility Manual	20	Jan 2003	Onboard
Lesson Plan	7	Jan 2003	Onboard
Student Guide	12	Jan 2003	Onboard

CIN, COURSE TITLE: C-103-2018, AN/GPN-30 DASR Maintenance (Track C-103-2069)
TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC: Pensacola, Florida, 63093

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Administrators Guide	1	Oct 2004	Pending
AN/GPN-30 ASR Schematic Package	4	Oct 2004	Pending
AN/GPN-30 Viewgraph Set	1 Set of	Oct 2004	Pending
AN/GPN-30 Wallchart Set	1 set of 7	Oct 2004	Pending

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

Electronic Classroom with 8 workstations	1	Apr 2003	Onboard
Lesson Plan	3	Apr 2003	Pending
Student Guide	4	Apr 2003	Pending

CIN, COURSE TITLE: C-103-2025, AN/FSQ-204 STARS Maintenance (Track C-103-2069)
TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC: Pensacola, Florida, 63093

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Administrators Guide	1	Oct 2004	Pending
AN/FSQ-204 STARS Schematics Package	4	Oct 2004	Pending
AN/FSQ-204 STARS Wallchart and Transperency Package	4	Oct 2004	Pending
AN/FYC-22 VIDS Transparency Set	1	Oct 2004	Pending
AN/FYC-22 VIDS Wallchart Package	1	Oct 2004	Pending
Electronic Classroom with 8 workstations	1	Apr 2003	Onboard
Lesson Plan	3	Oct 2004	Pending
Student Guide	4	Oct 2004	Pending

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-103-2035, AN/TPX-42(V)10 RATCF DAIR Maintenance Course (Track C-103-2051)
TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC : Pensacola, Florida, 63093

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
EE257-AA-IPB-010-E120 OD152, A Control Indicator Group OD-152A IPB	Hard copy	2	Oct 2003	Onboard
EE257-AA-MMM-010/E12 OD152, A Control Indicator Group OD-152A/T Service Manual	Hard copy	10	Oct 2003	Onboard
EE275-AA-MMM-020/E120 OD152,A Control Indicator Group OD-152A/T Circuit Diagrams	Hard copy	2	Oct 2003	Onboard
MIP R-26 Maintenance Requirement Cards	Hard copy	2	Oct 2003	Onboard
NAVEDTRA 10088-B1 Digital Computer Basics	Hard copy	Oct02	Oct 2003	Onboard
NAVEDTRA 172-19-00-85 NEETS Module 19 - The Technician's Handbook	Hard copy	2	Oct 2003	Onboard
NAVEDTRA B72-22-00-88 NEETS Module 22 - Introduction to Basic Computers	Hard copy	2	Oct 2003	Onboard
NAVELEX 0913-LP-287-5400 SA-2593/UPX Switching Unit Service Manual	Hard copy	2	Oct 2003	Onboard
NAVELEX 0967-LP-431-0010 C-8626/T Indicator Control Service Manual		2	Oct 2003	Onboard
NAVELEX 0967-LP-431-0020 C8626/T Indicztor Control IPB	Hard copy	2	Oct 2003	Onboard
NAVELEX 0967-LP-434-9010 AS-177B/UPX Antenna Technical Manual	Hard copy	2	Oct 2003	Onboard
NAVELEX 0967-LP-542-5010 AN/UPX-27 Operation and Maintenance Instruction	Hard copy	2	Oct 2003	Onboard
NAVELEX 0967-LP-542-5020 AN/UPX-27 Interrogator Circuit Diagrams	Hard copy	2	Oct 2003	Onboard
NAVELEX 0967-LP-542-5030 AN/UPX-27 Interrogator Maintenance Standards	Hard copy	2	Oct 2003	Onboard

IV.B.3. TECHNICAL MANUALS

NAVELEX 0967-LP-627-9010 AN/TPX-42A(V)10, 11 Interrogator Set Operations and Maintenance Manual	Hard copy	2	Oct 2003	Onboard

CIN, COURSE TITLE: C-103-2028, AN/TPX-42(V)5 DAIR Maintenance Course (Track C-103-2053)
TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC : Pensacola, Florida, 63093

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
524576 BTE-2000 Beacon Target Extractor Maintenance	Hard copy	10	Oct 1996	Onboard
NAVELEX 0967-LP-431-1010 OD-58/T and OT-58A/T Control Indicator Group Service Manual	Hard copy	2	Oct 1996	Onboard
NAVELEX 0967-LP-431-2020 OD-58/T and OT-58A/T Control Indicator Group Circuit Diagrams	Hard copy	2	Oct 1996	Onboard
NAVELEX 0967-LP-431-2030 OD-58/T and OD-58A/T IPB	Hard copy	2	Oct 1996	Onboard

CIN, COURSE TITLE: C-103-2036, AN/GPN-27 Maintenance Course (Track C-103-2060)
TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC : Pensacola, Florida, 63093

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NAVELEX 0913-LP-284-1800 ND4A Channel Blank Equipment Volume 1	Hard copy	8	Nov	Onboard
NAVELEX 0913-LP-284-1900 ND4A Channel Bank Equipment Volume 2	Hard copy	8	Nov	Onboard
NAVELEX 0913-LP-284-2200 M12 Multiplexer Operation	Hard copy	8	Nov	Onboard
NAVELEX 0913-LP-284-2200 M12 Multiplexer Maintenance Manual	Hard copy	10	Nov	Onboard
NAVELEX 0913-LP-288-6100 Fiber Optic Inter Site system Maintenance Manual	Hard copy	10	Nov	Onboard
NAVELEX 0913-LP-288-6100 Fiber Optics Intersite System	Hard copy	8	Nov	Onboard
NAVELEX -LP-284-1600 90A1-RM90A2Radar Multiplexer	Hard copy	8	Nov	Onboard

IV.B.3. TECHNICAL MANUALS

NAVELEX-0913-LP-284-8800 Redundant 48VDC Power Supply	Hard copy	8	Nov	Onboard

CIN, COURSE TITLE: C-222-2022, Advanced Radar Air Traffic Control
TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC : Pensacola, Florida, 63093

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
FA-8990/1 Video Mapper Users Manual	Hard copy	1	Jan 2003	Onboard
FAA AIM FAA Aeronautical Information Manual	Hard copy	1	Jan 2003	Onboard
FAA Order 7110.65 Air Traffic Control Manual	Hard copy	20	Jan 2003	Onboard
Flock Card 1-3-1 Terminal Area Diagram	Hard copy	1	Jan 2003	Onboard
NESEA AN/TPX-42A(V)10 RATCF/DAIR V10 Operators Manual	Hard copy	2	Jan 2003	Onboard
OD-152 OD-152 Operators Manual	Hard copy	1	Jan 2003	Onboard
OJ-314 OJ-314 Operators Manual	Hard copy	1	Jan 2003	Onboard
TRACON SG-R Scenario Guide, Radar	Hard copy	4	Jan 2003	Onboard
TRACON TAM Training Aid Manual	Hard copy	4	Jan 2003	Onboard

CIN, COURSE TITLE: C-103-2018, AN/GPN-30 DASR Maintenance (Track C-103-2069)
TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC : Pensacola, Florida, 63093

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
1 DASR PMS Cards	IETM	2	Oct 2004	Pending
2 FAA Maintenance Handbook	IETM	5	Oct 2004	Pending

IV.B.3. TECHNICAL MANUALS

3 PSR Technical Manual		5	Oct 2004	Pending
4 MSSR Technical Manual	IETM	5	Oct 2004	Pending
5 UPS Technical Manual	IETM	5	Oct 2004	Pending
6 MTI Technical Manual	IETM	5	Oct 2004	Pending
7 Flexswitch Technical Manual	IETM	5	Oct 2004	Pending

CIN, COURSE TITLE: C-103-2025, AN/FSQ-204 STARS Maintenance (Track C-103-2069)
TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC : Pensacola, Florida, 63093

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
00-0070C STARS Technical Hardware Manual	Hard copy	10	Oct 2004	Pending
15-000002-00 Multiport 400S/800S A/Sync Series Users Manual	Hard copy	10	Oct 2004	Pending
3-800-980-22(1) Sun GDM 17/20 Color Monitor Guide	Hard copy	10	Oct 2004	Pending
4002064 X-IQ5700+/1070+ Printer Maintenance Manual	Hard copy	10	Oct 2004	Pending
800-6654-12 Sun Keyboard Maintenance Manual	Hard copy	10	Oct 2004	Pending
801-6397-13 Diskette Drive Maintenance Manual	IETM	10	Oct 2004	Pending
L016001G Stars Program Operation and Maintenance	IETM	10	Oct 2004	Pending

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
DA	Awarded Contract for DASR	Aug 96	Complete
DA	Began Developmental Test of VIDS	FY97	Complete
FAAAC	Began STARS Operator Training	Mar 98	Complete
DA	Received DASR at Elgin AFB	Jun 98	Complete
FAAAC	Began STARS Site Hardware Training	Jun 98	Complete
DA	Prepared the DoD Test Site (Elgin AFB)	Sep 98	Complete
DA	Conducted OT&E Initial Training for DASR	Jan 99	Complete
DA	Approved COTS and NDI Technical Manuals for DASR	Feb 99	Complete
DA	Conducted Combined DT&E and OT for DASR	Jun 99	Complete
DA	Conducted Inspection, Validation, and Verification of VIDS	FY99	Complete
FAAAC	Completed STARS Site Hardware Training	Oct 99	Complete
AFOTEC	Conducted OT&E for DASR	Nov 99	Complete
DA	Delivered STARS to NAWC St. Inigoes	Dec 99	Complete
DA	Completed DT&E for STARS	Jan 00	Complete
DA	Completed DT&OT for STARS	Jan 00	Complete
DA	Approved System Operation and Technical Manuals for DASR	July 00	Complete
DA	Conducted Combined OT&E for STARS and DASR	Jun 01	Complete
DA	Achieved Milestone III Decision for STARS	Aug 01	Complete
DA	Completed Combined OT&E for STARS and DASR	Nov 01	Complete
DA	Delivered STARS TTE (First System)	Jan 02	Complete
DA	Delivered VIDS TTE (First System)	Jan 02	Complete
DA	Delivered DASR TTE (First System)	Jan 02	Complete
DA	Attained Initial Operating Capability for STARS	Sep 02	Complete
DA	Attained Initial Operating Capability for VIDS	Sep 02	Complete
DA	Attained Initial Operating Capability for DASR	Sep 02	Complete
TSA	Developed Draft NTSP	Nov 03	Complete
TSA	Begin Follow-on Training for DASR	Oct 04	Pending
TSA	Begin Follow-on Training for STARS	Oct 04	Pending
TSA	Begin Follow-on Training for VIDS	Oct 04	Pending
DA	Deliver STARS TTE (Second System)	FY07	Pending
DA	Deliver VIDS TTE (Second System)	FY07	Pending
DA	Deliver DASR TTE (Second System)	FY11	Pending
DA	Complete Fleet Delivery and Installation of DASR	FY14	Pending

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
DA	Complete Fleet Delivery and Installation of STARS	FY14	Pending
DA	Complete Fleet Delivery and Installation of VIDS	FY14	Pending

PART VI - DECISION ITEMS / ACTION REQUIRED

DECISION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS
No decisions or actions pending			

PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
CAPT John Chase Deputy Aviation Maintenance Programs CNO, N781 john.chase@navy.mil	**COMM:** (703) 604-7747 **DSN:** 664-7747 **FAX:** (703) 604-6972
CAPT Steve Jacobsmeyer Carrier Readiness Programs CNO, N785D steven.jacobsmeyer@navy.mil	**COMM:** (703) 614-4985 **DSN:** 224-4985 **FAX:** (703) 695-3066
CDR Thomas Stuart Common Avionics Requirements Officer CNO, N783C2 thomas.stuart@navy.mil	**COMM:** (703) 604-7736 **DSN:** 664-7736 **FAX:** (703) 604-6969
AZC Daniel Burlile NTSP Manager CNO, N789B3A daniel.burlile@navy.mil	**COMM:** (703) 604-7709 **DSN:** 664-7709 **FAX:** (703) 604-6972
LCDR Jim Arend Aviation Manpower CNO, N122C1C james.arend@navy.mil	**COMM:** (703) 695-3223 **DSN:** 225-3223 **FAX:** (703) 614-5308
CAPT David Mahoney Head, Reserve Air Logistics Programs CNO, N0955F david.mahoney@navy.mil	**COMM:** (703) 601-1872 **DSN:** 329-1872 **FAX:** (703) 601-0561
CAPT Michael Disano Professional Development Division Director CNO, N00T3 michael.disano@navy.mil	**COMM:** (703) 602-5172 **DSN:** 332-5172 **FAX:** (703) 602-5175
Mr. Robert Zweibel Human Performance and Acquisition Assessment Division CNO, N00T46 robert.zweibel@navy.mil	**COMM:** (703) 602-5151 **DSN:** 332-5151 **FAX:** (703) 602-5175
COL C. R. Spofford, USMC Head, USMC Aviation Manpower Support Branch HQMC, ASM-1 spoffordcr@hqmc.usmc.mil	**COMM:** (703) 693-9846 **DSN:** 223-9846 **FAX:** (703) 614-1309
MAJ John Gackle, USMC USMC Aircraft Maintenance Officer CMC, ASL-33 gacklejo@hqmc.usmc.mil	**COMM:** (703) 614-1187 **DSN:** 224-1187 **FAX:** (703) 697-7343

PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
Mr. Rob Bellamy NAS Mod ADPM NAVAIR, PMA2132 robert.bellamy@navy.mil	**COMM:** (301) 995-6323 **DSN:** 995-6323 **FAX:** (301) 995-6341
ACCM Mike Holder ATC Training Systems Manager NAVAIR, PMA2053E1 michael.holder@navy.mil	**COMM:** (301) 757-8126 **DSN:** 757-8126 **FAX:** (301) 757-6945
Mr. George Dankulich NAS Mod APML NAVAIR, 3.1.4.1 george.dankulich@navy.mil	**COMM:** (301) 995-6308 **DSN:** 995-6308 **FAX:** (301) 995-6341
Mr. David Morris Manpower Team NAVAIR, AIR 3.2.6 david.m.morris@navy.mil	**COMM:** (301) 757-8313 **DSN:** 757-8313 **FAX:** (301) 342-7737
AECS Rob Gunther Manpower Team NAVAIR, AIR 3.2.6 robert.gunther@navy.mil	**COMM:** (301) 757-3089 **DSN:** 757-3089 **FAX:** (301) 342-7737
AEC Jody Malinich Manpower Team NAVAIR, AIR 3.2.6 jody.malinich@navy.mil	**COMM:** (301) 757-3108 **DSN:** 757-3108 **FAX:** (301) 342-7737
CAPT Jorge Sierra Branch Head, Training Requirements and Assessments COMLANTFLT, N72 jorge.sierra@navy.mil	**COMM:** (757) 836-6495 **DSN:** 836-6495 **FAX:** (757) 836-6794
CDR Mike Hohl Aviation NTSP Point Of Contact COMLANTFLT, N731 john.hohl@.navy.mil	**COMM:** (757) 836-0085 **DSN:** 836-0085 **FAX:** (757) 836-6737
Mr. Bob Long Deputy Director for Training COMPACFLT, N70 robert.h.long@navy.mil	**COMM:** (808) 471-8513 **DSN:** 315-471-8513 (OUTCONUS) **FAX:** (808) 471-8596
ATC Keith Barbazon Air Training Programs COMNAVRESFORCOM, N734 keith.barbazon@navy.mil	**COMM:** (504) 678-1259 **DSN:** 678-1259 **FAX:** (504) 678-0134

PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
CAPT Robert Holland Deputy Assistant, Chief of Naval Personnel for Distribution NAVPERSCOM, PERS-4B robert.holland@navy.mil	**COMM:** (901) 874-3529 **DSN:** 882-3529 **FAX:** (901) 874-2606
CDR Dave Nelson Branch Head, Aviation Enlisted Assignments NAVPERSCOM, PERS-404 david.e.nelson2@navy.mil	**COMM:** (901) 874-3691 **DSN:** 882-3691 **FAX:** (901) 874-2642
MAJ Henry Domingue, USMC Head, ACE Branch, TFS Division MCCDC, C5325A henry.domingue@nmci.usmc.mil	**COMM:** (703) 784-6241 **DSN:** 278-6241 **FAX:** (703) 784-6072
MSGT Mark Crampton, USMC USMC AMTCS Coordinator MCCDC, C4610 mark.crampton@usmc.mil	**COMM:** (703) 784-3708 **DSN:** 278-3708 **FAX:** (703) 784-3729
GYSGT E. B. Carter, USMC USMC MATMEP Coordinator MCCDC, C4610 eric.carter@usmc.mil	**COMM:** (703) 784-2839 **DSN:** 278-2839 **FAX:** (703) 784-3729
MSGT Anthony B. Rahatt, USMC USMC CBT Coordinator MCCDC, C4610 anthony.rahatt@usmc.mil	**COMM:** (703) 784-6879 **DSN:** 278-6879 **FAX:** (703) 784-3729
Mr. Charles Brown Assistant ACE Branch Head MCCDC, C5325B charles.brown@nmci.usmc.mil	**COMM:** (703) 784-6254 **DSN:** 278-6254 **FAX:** (703) 784-6072
CDR Rose Wynne Aviation Department Head NAVMAC, 30 rosemary.wynne@navy.mil	**COMM:** (901) 874-6218 **DSN:** 882-6218 **FAX:** (901) 874-6471
Ms. Susan Webb NTSP Coordinator NAVMAC, 30 susan.webb@navy.mil	**COMM:** (901) 874-6242 **DSN:** 882-6242 **FAX:** (901) 874-6471
Mr. Brett Hollowell NETC/NPDC NTSP Coordinator NPDC, N7 brett.hollowell@navy.mil	**COMM:** (757) 444-2269 ext. 3225 **DSN:** 564-2269 ext. 3225 **FAX:** (757) 445-8082

PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
Mr. Steve Berk NTSP Distribution NETC, ETS-23 stephen.berk@navy.mil	**COMM:** (850) 452-8919 **DSN:** 922-8919 **FAX:** (850) 452-4853
MAJ Robert J. Turpin, USMC Marine Integration Team Leader CNATT, N55 robert.turpin@navy.mil	**COMM:** (850) 452-9790 ext. 135 **DSN:** 922-9790 ext. 135 **FAX:** (850) 452-3262
LT Mike Corrigan Aviation Maintenance Systems COMOPTEVFOR, 533 corrigam@cotg.navy.mil	**COMM:** (757) 444-5087 ext. 3354 **DSN:** 564-5087 ext. 3354 **FAX:** (757) 444-3820
Mr. Phil Szczyglowski Manpower and NTSP Branch Head NAVAIR, AIR 3.2.6 philip.szczyglowski@navy.mil	**COMM:** (301) 757-8280 **DSN:** 757-8280 **FAX:** (301) 342-7737
Mr. Bob Kresge NTSP Manager NAVAIR, AIR 3.2.6 robert.kresge@navy.mil	**COMM:** (301) 757-1844 **DSN:** 757-1844 **FAX:** (301) 342-7737
ATC Jeff Rocheteau NTSP Coordinator NAVAIR, AIR 3.2.6 robert.rocheteau@navy.mil	**COMM:** (301) 757-8292 **DSN:** 757-8292 **FAX:** (301) 342-7737
AMC Jim Sirigos NTSP Coordinator NAVAIR, AIR 3.2.6 james.sirigos@navy.mil	**COMM:** (301) 757-3103 **DSN:** 757-3103 **FAX:** (301) 342-7737